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A REGIONAL RECONNAISSANCE OF THE SOUTH PLATTE RIVER BASIN

VOLUME II

PUBLIC HEALTH SERVICE
DENVER, COLORADO

1961

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The South Platte River Basin was selected as a region for a case study in application of the regional reconnaissance method since it illustrates many of the questions facing the practitioner in understanding such a study. Focus was on population treands, an economic activities inventory concentrating on employment and production trends, and an income analysis. This volume provides statistics and tabular data on production trends by industry, including agriculture, mining, manufacturing, trade, and services.

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VOLUME II

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TABLE OF CONTENTS

Page

CHAPTER IV - A REGIONAL RECONNAISSANCE OF THE SOUTH PLATTE RIVER BASIN 1

a. Population of the South Platte River Basin 10
Statistical Analysis of Past Population 11
Review of Factors and Conditions Influencing Population Growth. 43
Development of Projections 45
Findings 47

b. The Environment 52
1. Location, Topography, and Climate Resources 52
2. Land Resources 71
3. Water Resources 79
4. Mineral Resources 90

c. Economic Activities 104
1. History of Settlement 104
2. Employment in the South Platte 115
3. Production Trends by Industry 168
(a) Agriculture 168
(b) Mining 190
(c) Manufacturing Trends 212
(d) Trade 219
(e) Services 228
4. Income 234

Appendix B - Working Papers on Population Projections of the South Platte River Basin 266

LIST OF TABLES

Table		Page
a- 1	Population of Counties, South Platte River Basin	12
a- 2	Population of Towns and Cities of the South Platte River Basin: 1960 and 1965	13
a- 3	Population Density in the South Platte River Basin Subregions, Counties, and Related Regions, 1920-1960	17
a- 4	Population of the South Platte River Basin Subregions, Counties, and Related Regions, 1920-1960	20
a- 5	Decennial Change in Population of the South Platte River Basin, Subregions, and Counties, 1920-1960	21
a- 6	Percentage Change in Population of Counties, Subregions, and Related Regions, 1920-1960	22
a- 7	Percentage Change in Population for Counties and Urban Places of the South Platte River Basin, 1940-50, 1950-60, 1940-60	25
a- 8	Percentage of Population that is Urban and Rural in Counties, Subregions, and Related Regions, 1940, 1950, 1960	27
a- 9	Ratio of South Platte River Basin, Subregion and County Population to Total State Population 1920-1960	33
a-10	Age and Sex of the Population of the South Platte River Basin, Subregions, Counties, and Related Regions by Percentage, 1940, 1950, 1960.	34
a-11	Median Age and Percentage of Population in Major Age Groups for the South Platte River Basin Counties, Subregions, and Related Regions, 1940, 1950, 1960	35
a-12	Percentage of the Population that is Non-white for Counties and Related Regions, 1940, 1950, 1960	37
a-13	Birth Rates for Counties of the South Platte River Basin and Related Regions, 1940-1964 (Number of Live Births per 1,000 Population)	38
a-14	Death Rates for Counties of the South Platte River Basin and Related Regions, 1940-1964 (Number of Deaths per 1,000 population	39
a-15	Share of Population that are Migrants or Foreign Born for the South Platte River Basin Counties and Related Regions, 1960 . . .	41
a-16	Migration as an Element of Population Change, for South Platte River Basin, Subregions, Counties and Colorado, 1940-50 and 1950-60	42
a-17	Projections of Future Population of South Platte River Basin and Subregions, 1970-2070	48
b- 1	Normal Monthly and Annual Precipitation in Inches, for Selected Station in the SPRB	61
b- 2	Range of Precipitation, at Selected Stations in the South Platte River Basin	62
b- 3	Average Annual Snowfall at Selected Stations in the South Platte River Basin	63
b- 4	Average Monthly Temperatures at Selected Stations in the SPRB . .	64
b- 5	Highest, Lowest and Annual Mean Temperature at Selected Stations in the South Platte River Basin	65
b- 6	Length of Growing Season at Selected Stations in the South Platte River Basin	66

Table Page

b- 7 Land Ownership and Use in the South Platte River Basin, Subregions and Counties, 1960-1964 73
b- 8 Transmountain Diversions 81
b- 9 Number and Yield of Ground-Water Wells by Use and Total 85
c- 1 Labor Force of the South Platte River Basin, Subregions and Related Areas, and Percent Change in Labor Force compared to Change in Population 1940, 1950, 1960 116
c- 2 Employment by Industry Group in the South Platte River Basin Subregions and Related Regions, Percentqge of Total, 1940, 1950, 1960. 120
c- 3 Percent Change in Employment by Industry Group for the South Platte River Basin Subregions, and Related Regions, 1950-1960 . . 125
c- 4 Subregion Share of South Platte River Basin Employment by Industry Group 131
c- 5 Rank Order of Importance of Employment by Industry Group, in the South Platte River Basin 1940, 1950, 1960 133
c- 6 Occupation of Labor Force in the South Platte River Basin, Subregions, Counties, and Related Regions, by Percentage, 1950-1960. 138
c- 7 Percentage Change /In Employment, by Occupation, in the South Platte River Basin Subregions, and Related Regions, 1950-1960 141
c- 8 Employment by Class of Worker for the South Platte River Basin, Subregions, Counties, and Related Regions, by Percentages, 1950, 1960 143
c- 9 Years of School Completed by Percentage of Total Persons 25 Years of Age or Older in the South Platte River Basin, Subregions, Counties, and Related Regions, 1950, 1960 147
c-10 Employment and Components of Employment Change in the South Platte River Basin, 1940-1950 and 1950-1960 155
c-11 Employment and Components of Employment Change in Major U. S. Regions, 1940-50 and 1950-60 156
c-12 Apparently omitted from report probably due to numering error .
c-13 Agricultural Trends in the South Platte River Basin and Subregions 178
c-14 The Number of Farms by Type of Farm in the South Platte River Basin and Subregions 181
c-15 Agricultural Income in the South Platte River Basin and Subregions 182
c-16 Agricultural Costs in the South Platte River Basin and Subregions 185
c-17 Crop Acreages in the South Platte River Basin and Subregions . . 187
c-18 Irrigated Crop Acreages in the South Platte River Basin and Subregions 189
c-19 Mineral Production in the South Platte River Basin, Subregions and Counties, 1962-1964 196
c-20 Producing Oil Fields in the South Platte River Basin, 1964 . . . 198
c-21 Value of Petroleum Produced in the South Platte River Basin, Subregions, Counties & Colorado, 1960-1964 & Cumulative Value . . 199
c-22 Petroleum Production in the South Platte River Basin, Subregions, Counties and Colorado, 1930-1940 200
c-23 Coal Production in the South Platte River Basin, Subregions, Counties and Colorado, 1920-1964 201
c-24 Gold Production in the South Platte River Basin, Subregions, Counties & Colorado, 1960-64, & Cumulative Value 202
c-25 Zinc Production in the South Platte River Basin, Subregions, Counties & Colorado, 1960-64 & Cumulative Value 203

Table **Page**

c-26 Silver Production in the South Platte River Basin, Subregions, Counties & Colorado, 1960-64, Cumulative Value & Number of Producing Mines 204
c-27 Copper Production in the South Platte River Basin, Subregions, Counties and Colorado, 1960-64, and Cumulative Value 205
c-28 Lead Production in the South Platte River Basin, Subregions, Counties and Colorado, 1960-64, and Cumulative Value 206
c-29 Uranium Production in the South Platte River Basin, Subregions & Counties, 1963-64 & the Number of Mining Operations Involved 207
c-30 Clay Production in the South Platte River Basin, Subregions, Counties and Colorado, 1962-64 207
c-30a Sand & Gravel Production in the South Platte River Basin, Subregions & Counties, 1963-1964 208
c-31 Stone Production in the South Platte River Basin, Subregions, Counties & Colorado, 1963-64 209
c-32 The Number of Establishments, Number of Employees, & Value Added in Mining, 1958, 1954, 1939 210
c-33 The Percentage Change in the Number of Establishments, Number of Employees, & Value Added in Mining in the South Platte River Basin & Subregions, 1939-54, 1954-58 211
c-34 Manufacturing Trends in the South Platte River Basin, Subregions, Counties & Colorado-Number of Establishments, Number of Employees, Value Added in Manufacturing, 1947, 1954, 1958, 1963 216
c-35 Manufacturing Trends Percentage Change in Number of Establishments, Number of Employees & Value Added in Manufacturing in the South Platte River Basin, Subregions & Colorado, 1947-54, 1954-58, 1958-63 218
c-36 The Number of Establishments, Sales, Payroll & Number of Employees in Wholesale Trade in the South Platte River Basin, Subregions, Counties & Colorado, 1948, 1954, 1958, 1963 222
c-37 The Percentage Change in the Number of Establishments, Sales, Payroll, & Number of Employees in Wholesale Trade, 1948-54, 1954-58, 1958-63 224
c-38 The Number of Establishments, Sales, Payroll, & Number of Employees in Retail Trade in the South Platte River Basin, Subregions, Counties & Colorado, 1948, 1954, 1958, 1963 225
c-39 Percentage Change in the Number of Establishments, Sales, Payroll, & Number of Employees, in Retail Trade in the South Platte River Basin, Subregions & Colorado, 1948-54, 1954-58, 1958-63 227
c-40 Number of Establishments, Receipts, Payroll, & Numberoof Employees in Selected Services in the South Platte River Basin, Subregions, Counties & Colorado, 1948, 1954, 1958, 1963 231
c-41 The Percentage Change in Number of Establishments, Receipts, Payroll, & The Number of Employees in Selected Services in the South Platte River Basin, Subregions & Colorado, 1948-54, 1954-58, 1958-63 . . 233
c-42 Personal Income in the South Platte River Basin, Subregions, Counties and Related Regions, 1940-1964 238
c-43 Per Capita Income in the South Platte River Basin, Subregions, Counties and Related Regions, 1940-1964 239
c-44 The Percentage Change in Personal Income in the South Platte River Basin, Subregions, Counties and Related Regions, 1940-1964 240
c-45 The Percentage Change in Per Capita Income in the South Platte River Basin, Subregions, Counties and Related Regions, 1940-1964 241

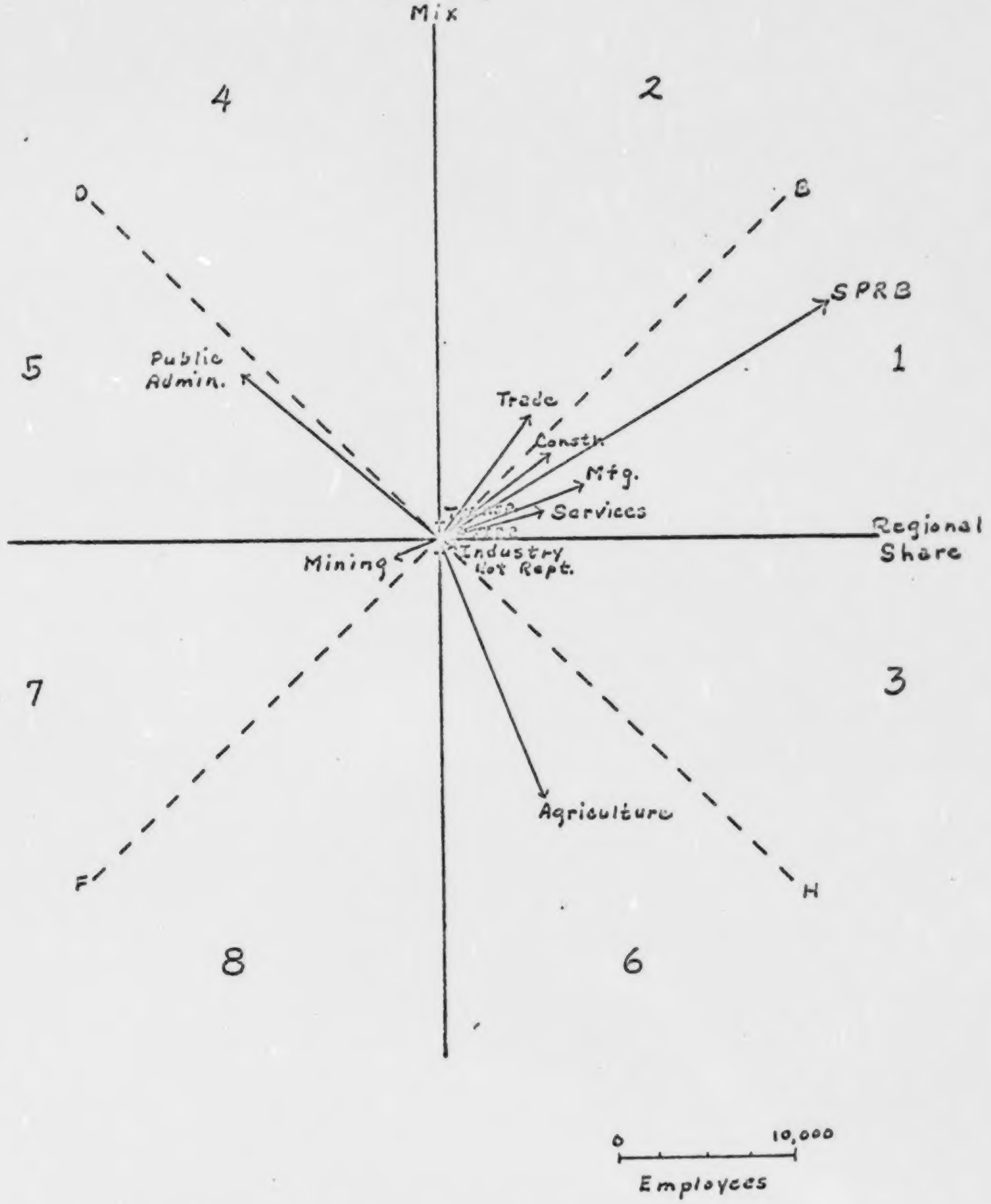
Table Page

c-46 Per Capita Income of the South Platte River Basin, Subregions and Counties as a Share of United States Per Capita Income, 1940-1964 242
c-47 Rank of Counties in the South Platte River Basin by Personal Income, 1940-1964 243
c-48 Rank of Counties in the South Platte River Basin by Per Capita Income, 1940-1964 245
c-49 Rank of Counties in the South Platte River Basin by Percentage Change in Personal Income, 1940-1964 247
c-50 Rank of Counties in the South Platte River Basin by Percentage Change in Per Capita Income, 1940-1964 249
c-51 Distribution of Families by Income Group in the South Platte River Basin, Subregions and Counties, 1950 258
c-52 Percentage Distribution of Families by Income Group in the South Platte River Basin, Subregions, Counties, and Related Regions, 1950 259
c-53 Distribution of Families by Income Group in the South Platte River Basin, Subregions and Counties, 1960 260
c-54 Percentage Distribution of Families by Income Group in the South Platte River Basin, Subregions, Counties, and Related Regions, 1960 261

LIST OF FIGURES

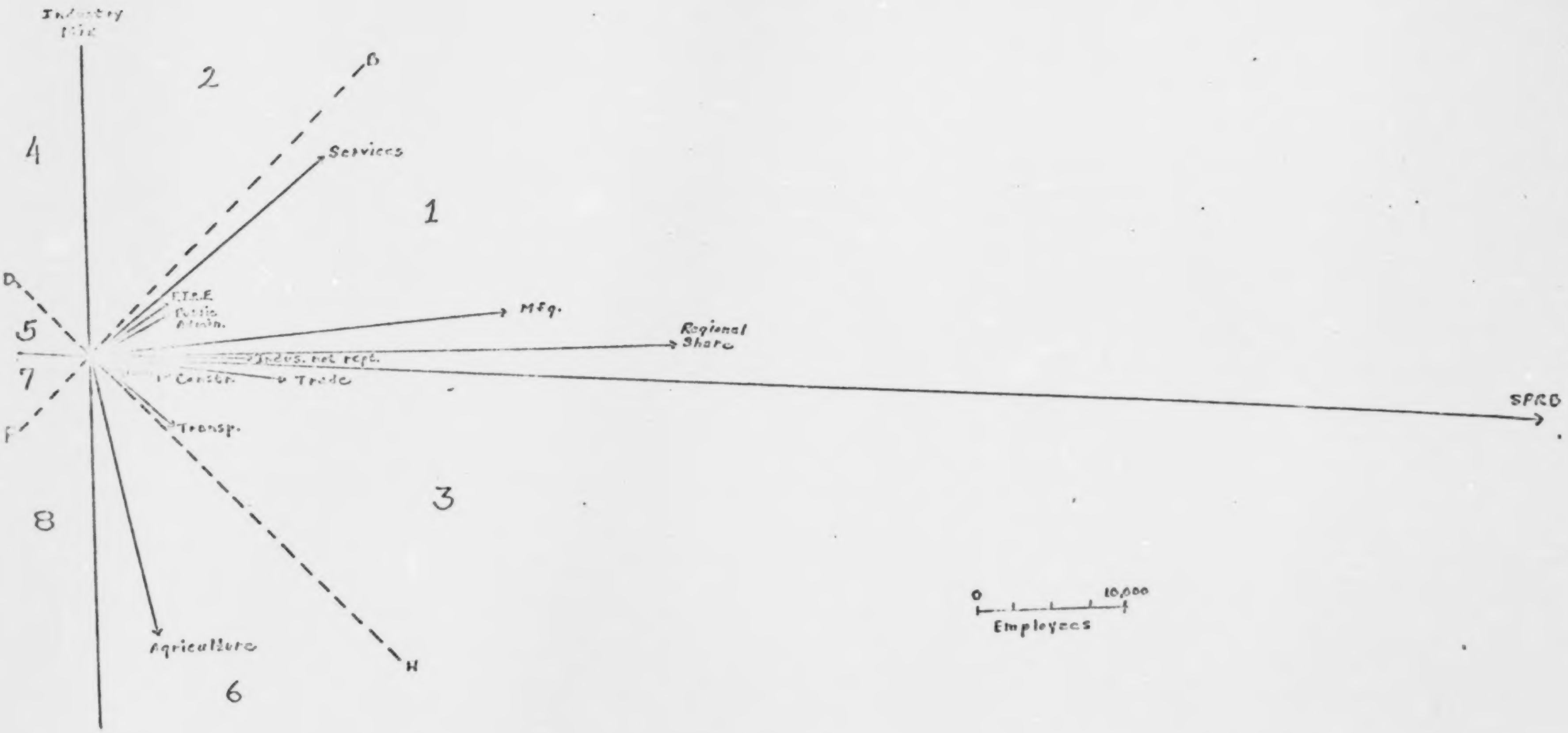
Figures		Page
2	The South Platte River and Its Tributaries	3
3	The South Platte River Basin Analytical Subregions and Counties	5
4	Completed Reconnaissance Review Sheet of the South Platte River Basin	9
a-1	Population Distribution in the South Platte River Basin	15
a-2	Population Density in the South Platte River Basin 1940/1960	18
a-3	Partial Reconnaissance Review Sheet, I. Population Trends.	51
b-1	Altitude of the South Platte River Basin	57
b-2	Average Annual Rainfall in the South Platte River Basin	67
b-3	Average January Low Temperature in the South Platte River Basin	68
b-4	Average July High Temperature in the South Platte River Basin	69
b-5	Average Hours of Sunshine per Winter Day, Average Number of Days with Winter Snow Cover	70
b-6	Land Ownership and Use in the South Platte River Basin	76
b-7	Land Ownership and Use, Subregions of South Platte Basin Percent of Total/Number of Acres	77
b-8	Water Production and Consumption of the South Platte River, 1963	89
b-9	Not found in this copy	
b-10	Oil and Gas Fields in the South Platte River Basin	94
b-11	Coal Fields in the South Platte River Basin	95
b-12	Mineral Resource of the South Platte River Basin	97
b-13	Metallic Mineral Resources in the South Platte River Basin	98
b-14	Nonmetallic&Construction Material Resources in the South Platte River Basin	99
b-15	Nonmetallic Mineral Resources in the South Platte River Basin	100
b-16	Construction Materials in the South Platte River Basin (1)	101
b-17	Construction Materials in the South Platte River Basin (2)	102
b-18	Partial Reconnaissance Review Sheet, II. Environment	103
c- 1	Percent Change in Employment by Industry Group for the South Platte River Basin, Subregion, Colorado, 1950-1960	126
c- 2	Relative Growth in Employment, South Platte River Basin and the United States, 1950-1960	128
c- 3	Industrial Composition of Employment in the South Platte River Basin and the United States, 1940, 1950, 1960	130
c- 4	Subregional Share of Total South Platte River Basin Employment, by Industry Group, 1940, 1950, 1960	132
c- 5	Major Source of Employment in Counties of the South Platte River Basin	137
c- 6	Occupation of Labor Force in the South Platte River Basin and Subregions, Percentage of Labor Force, 1950 and 1960	139
c- 7	Percentage Change in Employment by Occupation, in the South Platte River Basin Subregions, Colorado, United States, 1950-1960	142
c- 8	Employment by Class of Worker, for the South Platte River Basin, Subregions and United States, by Percentages, 1950, 1960	145

Figure		Page
c- 9	Years of School Completed by Percentage of Total Persons 25 Years of Age or Older in the South Platte River Basin, Subregions, Counties and Related Regions, 1960	149
c-10	Components of Employment Change, South Platte River Basin 1940-1950	164
c-11	Components of Employment Change, South Platte River Basin 1950-1960	165
c-12	Components of Employment Change, Regions of the United States 1940-1950	166
c-13	Components of Employment Change, Regions of the United States 1950-1960	167
c-14	Major Sources of Agriculture Income in the South Platte River Basin	169
c-15	Generalized Map of Land Use in the South Platte River Basin	171
c-16	The Number, Average, Size & Type of Farms in the South Platte River Basin, 1949, 1954, 1959	172
c-31	Growth of Total Personal Income in the South Platte River Basin, 1950-1964	251
c-32	Per Capita Income in the South Platte River Basin Counties, 1964.	252
c-33	Growth of Per Capita Income in South Platte River Basin Counties, 1950-1964	253
c-34	Shift in Ranking of the South Platte River Basin Counties by Per Capita Income, 1950-1964	254
c-35	Partial Reconnaissance Review Sheet, III. Economic Activities	264
c-36	Partial Reconnaissance Review Sheet, IV. Strategic Factors	265



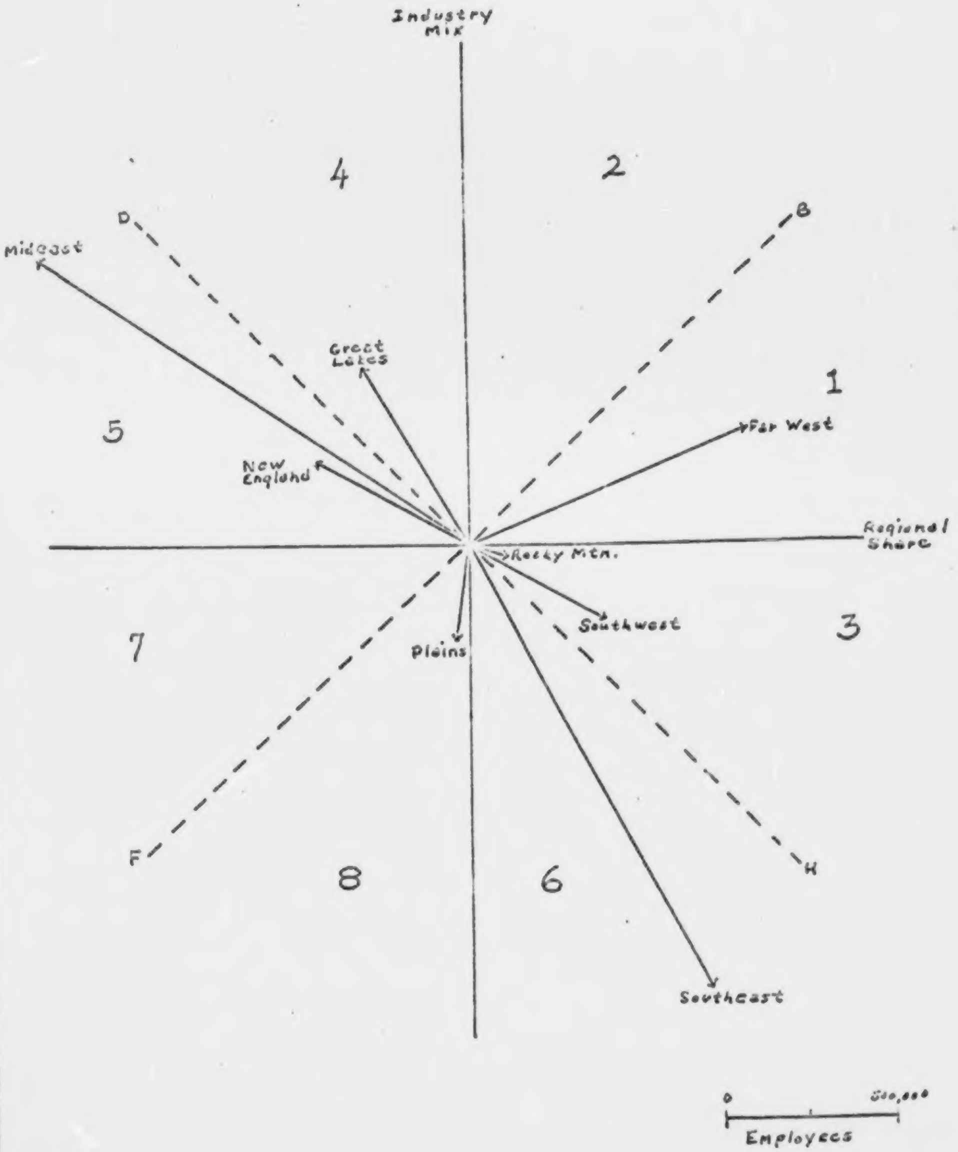
Source: Table c-10

Fig. c-10: Components of Employment Change,
South Platte River Basin
1940-1950


Industry Mix
2
4
B
Services
1
D
F.I.R.E.
Public Admin.
Mfg.
Regional Share
5
Indus. not rept.
7
Constr.
Trade
SPRB
F
Transp.
3
8
0
10,000
Employees
Agriculture
H
6

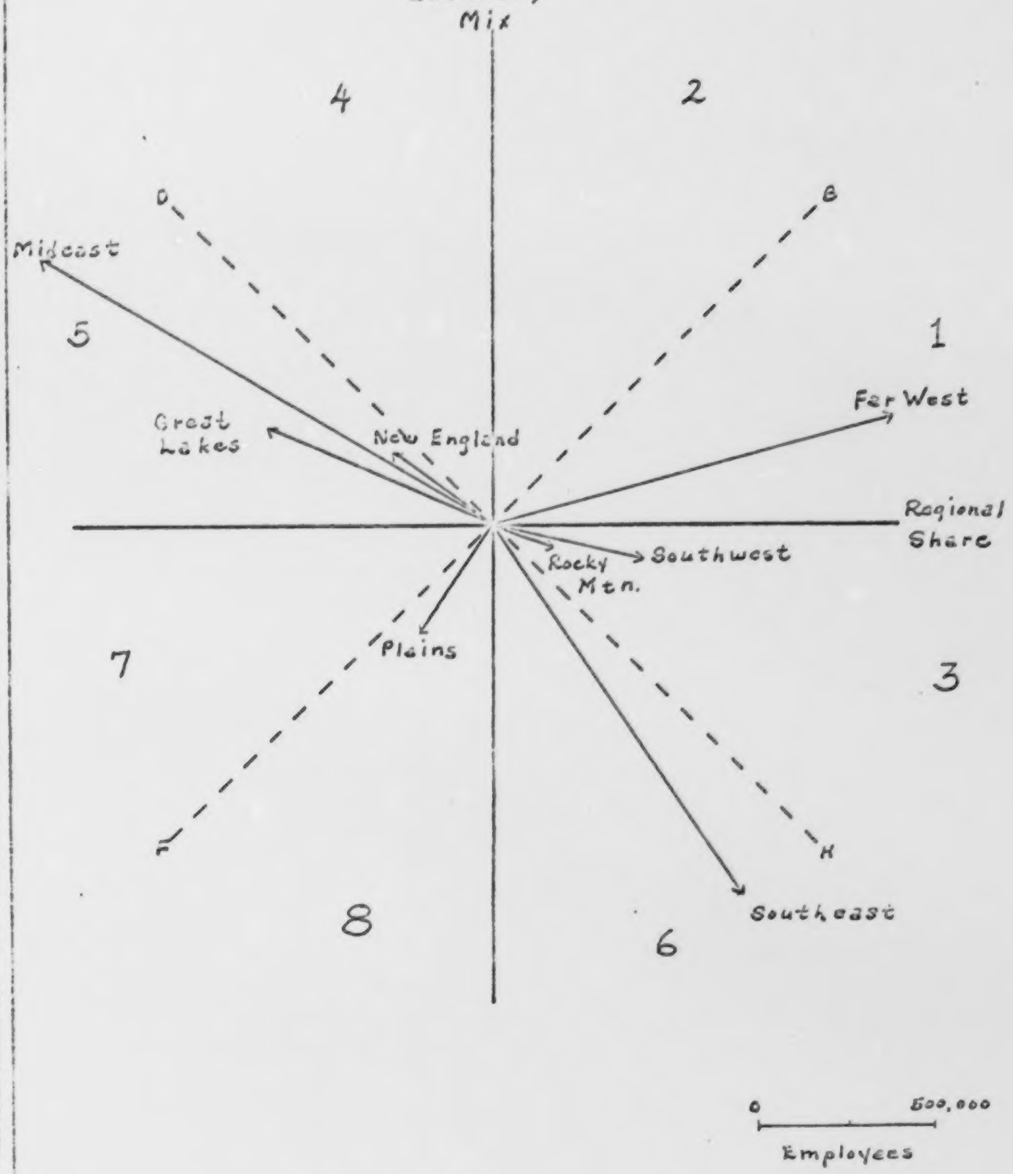
Source: Table c-10

Fig. c-11 --Components of Employment Change,
South Platte River Basin
1950-1960



Source: Table c-11

Fig. c-12 --Components of Employment Change, Regions of the United States 1940-1950



Source: Table c-11

Fig. c-13 --Components of Employment Change, Regions of the United States 1950-1960

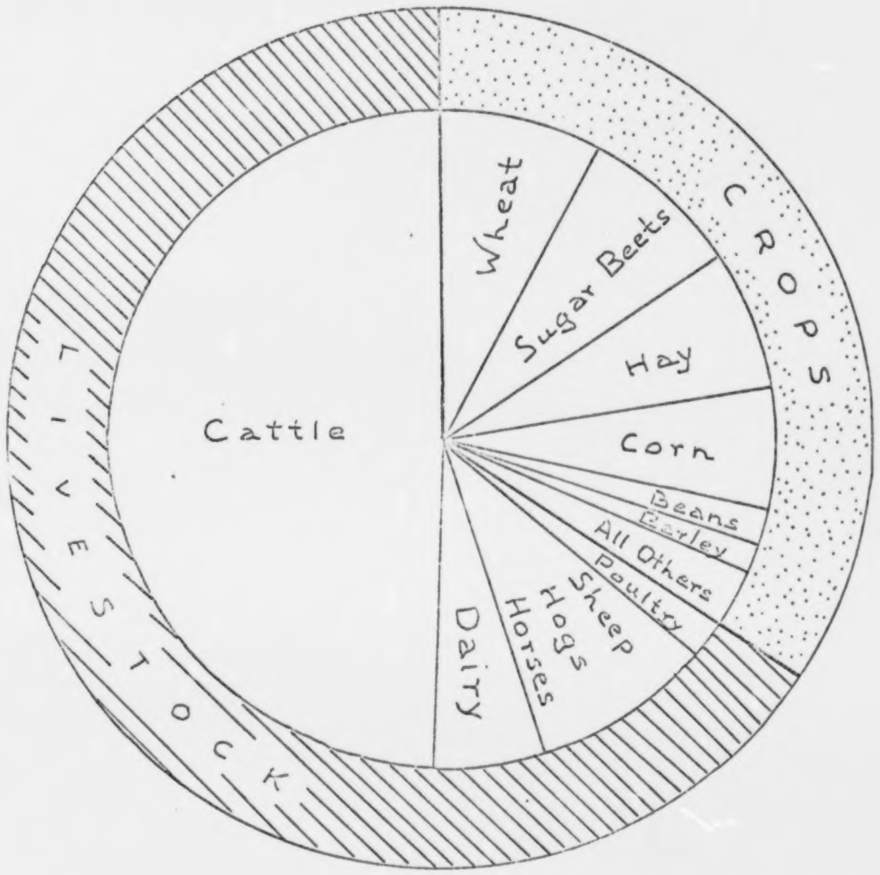
3. Production Trends by Industry

(a) Agriculture

The foregoing analysis of employment indicated that while employment in agriculture in the South Platte River Basin is declining as it is everywhere in the United States, it is decreasing at a slower rate than elsewhere in the nation. The Basin has a competitive advantage in agriculture which derives largely from the extensive irrigation centering in the Irrigated Plains Subregion. This is one of the most productive agricultural regions in the nation. Weld County is regularly one of the top ten counties in the country in value of agricultural goods produced. Agriculture in the Basin centers around livestock production, which as Figure c-14 illustrates, accounts for about two-thirds of the value of production. Much of the irrigated crop serves as a feed base for livestock production. Wheat and sugar beets are the most important cash crops, each being a little less than one-fourth of the total value of crop production. Hay and corn follow in order of value. Sugar beets are almost entirely irrigated as are two-thirds of the corn and one-half the hay.

The South Platte River Basin has nearly 15 million acres of land in farms. One-fifth of this is harvested crop land, the balance being grazing land. A little

I think this figure is too high by about 2 million acres. Robt. Shankland

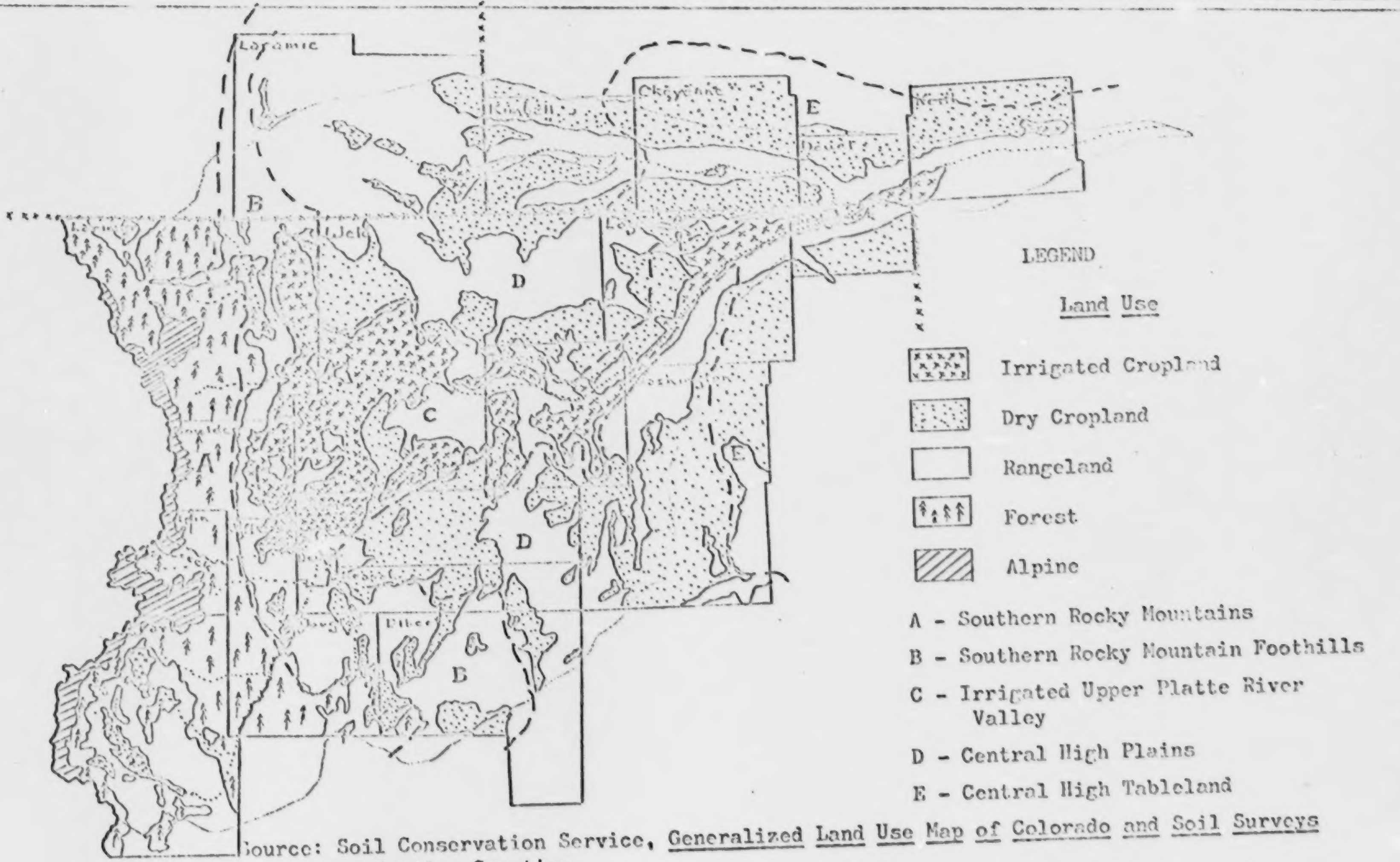


Source: Table c-15

Fig. c-14 --Major Sources of Agriculture Income in The South Platte River Basin, 1959 less than one-third of the harvested crop land is irrigated. Figure c-15 indicates the general distribution of irrigated and dry crop land and range land throughout the basin. The number of farms declined one-quarter in the ten year (irrigated farms decreased by only one-fifth) period ending in 1959 to 15,772 (Figure c-16). The total amount of land in farms remained the same, but the average size of farm increased by one-third to 943 acres each. The value of all farm products sold grew by fifty percent in the same ten years to nearly 368 million in 1959. The value of livestock products grew at a faster rate (75 percent) indicating that the South Platte River Basin agriculture is becoming more specialized in livestock production. And if we consider only cattle production, the increase is nearly 85 percent.

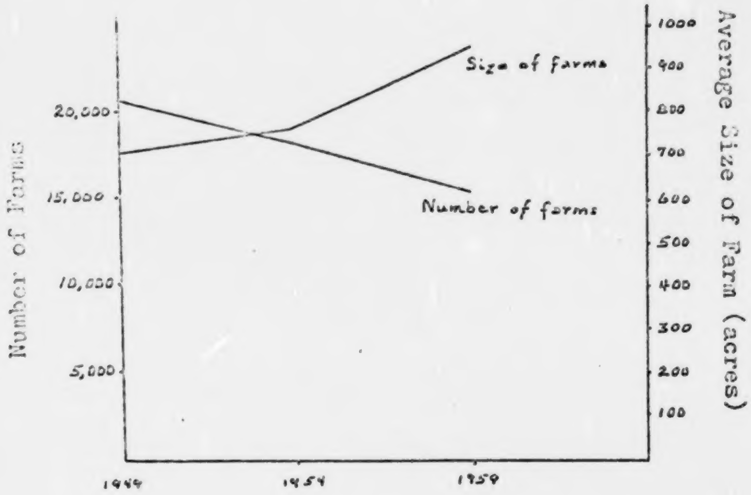
The characteristics and productivity of farms varies among the subregions of the Basin. The Irrigated Plains Subregion has the largest number of farms and the highest total and average productivity. The Dry Plains Subregion has the greatest total amount of land in farms, but the average size of farms is greatest in the Mountain Subregion.

The Metropolitan Subregion has one-fifth of the South Platte River Basin's farms although the number is decreasing at a faster rate than elsewhere (except)

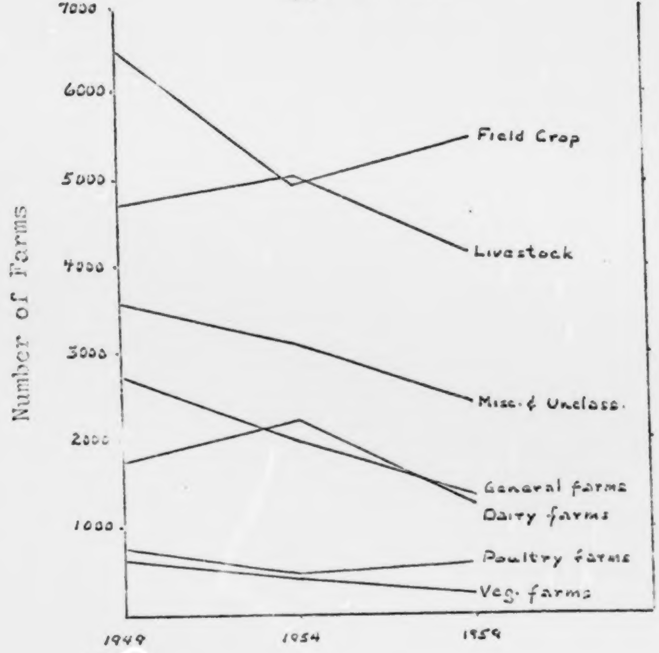

Laramie
Cheyenne
A
B
C
D
E
LEGEND
Land Use
Irrigated Cropland
Dry Cropland
Rangeland
Forest
Alpine
A - Southern Rocky Mountains
B - Southern Rocky Mountain Foothills
C - Irrigated Upper Platte River Valley
D - Central High Plains
E - Central High Tableland

Source: Soil Conservation Service, Generalized Land Use Map of Colorado and Soil Surveys of Nebraska and Wyoming Counties

Fig. c-15 --Generalized Map of Land Use in The South Platte River Basin



Type of Farm



Source: Tables c-13 and c-14

Fig. c-16 --The Number, Average, Size & Type of Farms in The South Platte River Basin, 1949, 1954, 1959 in the Mountain Subregion). Seventy-five percent of the land is in farms with a high ratio of irrigated farms. The average value of farms is greater than in the Irrigated Plains or Dry Plains Subregion despite the fact that the average size is smaller. The average value is also increasing at a faster rate than in the other two subregions. Not surprisingly, this is the only subregion in which the total land in farms has shown a decline. The ratio between value of crop and livestock production is the same as for the South Platte River Basin generally. The increase in value of farm products exceeds that of the Dry Plains and Mountain Subregions, reflecting the amount of irrigation taking place. The type of farm found here is quite different from elsewhere in this basin reflecting perhaps the region's increasing function as an urban service area. Three-fourths of the vegetable farms of the basin are in the Metropolitan Subregion, 85 percent of the poultry farms, one-fourth of the dairy farms, but only one-tenth of the field crop farms, livestock or general farms.

The Irrigated Subregion is the most important agricultural goods producing area in the basin. As discussed in the earlier section on history of settlement, extensive irrigated agricultural development took place here early in the basin's settlement history. Almost half of the farms of the South Platte River Basin are here, although the average size of farm (658 acres) is considerably smaller than in the Dry Plains or Mountain Subregions. Nearly three-quarters of the farms are irrigated. One-third of the land in farms in the South Platte River Basin is in the Irrigated Plains Subregion, but two-thirds of the total irrigated land is here. Farms occupy seventy-eight percent of the total land of the subregion. Nearly forty percent of the crop land harvested in the South Platte River Basin is in this subregion. This includes nearly ninety percent of the sugar beets, two-thirds of the corn and vegetables, eighty percent of the beans and potatoes, half the hay and a third of the wheat produced in the South Platte River Basin. Yet the value of all crops grown is little more than one-fourth of the total value of farm products originating here. Livestock products, eighty-five percent cattle, made up the major portion of the agricultural produce. The total value of farm products sold increased sixty-five percent to $218 million in the ten-year period ending in 1959. This is twice the rate of increase that took place in the rest of the basin.

The average value of farm products per farm is much greater in the Irrigated Plains Subregion than in other parts of the basin, but the limited listing of costs involved in producing this product given in Table c-16, indicates that the amount of income left as payment for the farmers' labor and investment is not much different than elsewhere in the basin. The average value of land and buildings per farm is, surprisingly, less in this subregion than in any other subregion of the basin, being only about two-thirds of the basin average. In addition, the value increased at a slower rate than in other subregions (one-half the rate of increase in the Metropolitan Subregion and one-third that in the Mountain Subregion). The average value per acre, while higher than the basin average increased at a slower rate in the 1949-59 period than the rest of the basin. The Irrigated Plains Subregion has more than three-quarters of the general farms, more than half the dairy farms and livestock farms, two-fifths of the field crop farms and a quarter of the vegetable farms in the basin.

The Mountain Subregion being the smallest in total area of the four subregions of the basin and the most mountainous has the smallest volume of agricultural activity. Yet, agriculture is perhaps the most important single activity in the productivity of the region. There are just over half a million acres in farms, thirty-six percent of the total land area. Farms here are highly specialized in livestock production. There are no farms classified as vegetable, field crop, poultry or dairy farms and only five general farms. Fifty percent of the farms here have irrigated land which is used exclusively for the production of hay. The number of farms is small (148 in 1959) and all but two dozen of them are in South Park area of Park County so essentially the agricultural productivity of the subregion is confined to this one county. The average size of these farms is 4,209 acres (1959), six and a half times larger than farms in the Irrigated Plains and Metropolitan Subregion and almost three times as big as Dry Plains farms. The average value per farm of products sold, which is almost entirely livestock products, is the smallest of any area in the basin although it is increasing at a faster rate. Average value per acre is also much lower (1/5 of the value per acre in the Metropolitan Region) but is also increasing at a faster rate. Because of the large size of farms, the average value of land and buildings per farm is much the highest in the basin, and is also increasing at a faster rate.

The Dry Plains Subregion has more than half the total land in farms of the basin and is more highly specialized as a dry land crop producer than the rest of the basin. It is second only to the Irrigated Plains in number of farms, with a third of the basins' total and a larger share of total land area (99 percent) is in farms, more than seven and a half million acres.

Half the farms here are classified as field crop farms. Only a small portion of farms are irrigated (sixteen percent) although this was the only subregion in the basin in which the acreage of irrigated land increased significantly (twenty percent) in the 1949-1959 period. More than half the total value of farm products sold is derived from crop production. Wheat, barley, hay, sorgum, corn, oats, and rye are the most important crops grown. Two-thirds of the barley and half the wheat grown in the basin is grown in the dry plains Subregion. Only fifteen percent of the cattle sold in the basin are derived from this area.

The average size of farm is larger than the basin average but the average value of farm products sold is considerably less than that of the Irrigated Plains and the Metropolitan Regions and grew at only half the rate that it did in these other subregions during the 1949-59 period. The average value of land and buildings per farm is above the basin average, but like farms in the Irrigated Plains Region, is growing at a slower rate.

Tables c-13 through c-18 which follow give detailed data on agricultural trends in the South Platte River Basin and subregions and Figures c-17 through C-30 (in Appendix D) give a graphic description of location and production of irrigated lands in the South Platte River Basin, livestock production and crop production by counties.

TABLE c-13

AGRICULTURAL TRENDS IN THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS

Area	1949	1954	1959
	Number of farms		
Metropolitan	5,504	4,228	3,017
Irrig. Plns.	9,002	8,305	7,407
Mountain	240	190	148
Dry Plains	6,234	5,750	5,200
SPRB	20,980	18,473	15,772
	Land in farms (acres)		
Metropolitan	1,787,236	1,751,264	1,705,363
Irrig. Plns.	4,774,262	4,724,339	4,876,721
Mountain	623,238	648,605	622,896
Dry Plains	7,565,958	7,303,429	7,663,115
SPRB	14,750,694	14,427,637	14,868,095
	Proportion of land in farms		
Metropolitan	76.2	74.7	75.7
Irrig. Plns.	76.7	75.9	78.3
Mountain	35.9	37.4	35.9
Dry Plains	97.5	94.1	98.8
SPRB	81.6	79.9	82.3
	Average size of farms (acres)		
Metropolitan	326.5	414.2	565.2
Irrig. Plns.	530.4	568.7	658.4
Mountain	2,596.8	3,413.7	4,208.8
Dry Plains	1,213.7	1,270.2	1,473.7
SPRB	703.1	781.0	942.7

Source: U. S. Census of Agriculture, 1949, 1954, 1959.

TABLE c-13--Continued

Area	Average value per farm ($)		
	1949	1954	1959
Metropolitan	24,769	39,680	87,303
Irrig. Plns.	26,945	38,438	54,196
Mountain	34,979	65,057	145,144
Dry Plains	38,780	56,666	82,530
SPRB	29,983	44,670	70,724
	Average value per acre ($)		
Metropolitan	76.28	95.80	154.45
Irrig. Plns.	50.81	67.57	82.31
Mountain	13.47	19.06	34.49
Dry Plains	31.95	44.61	56.00
SPRB	42.64	57.19	75.02
	Cropland harvested (acres)		
Metropolitan	499,282	299,991	417,628
Irrig. Plns.	1,360,477	1,057,654	1,241,243
Mountain	48,821	23,028	39,398
Dry Plains	1,561,069	1,361,563	1,545,818
SPRB	3,469,649	2,742,236	3,244,087
	Number of irrigated farms		
Metropolitan	3,315	2,222	1,844
Irrig. Plns.	6,356	5,821	5,316
Mountain	74	65	90
Dry Plains	776	859	852
SPRB	10,537	8,967	8,086

Source: U. S. Census of Agriculture, 1949, 1954 1959.

TABLE c-13--Continued

Area	Irrigation farms as a proportion of all farms		
	1949	1954	1959
Metropolitan	60.2	52.6	61.1
Irrig. Plns.	70.6	70.1	71.8
Mountain	37.5	34.2	50.0
Dry Plains	12.4	14.9	16.4
SPRB	50.2	48.5	51.3
	Irrigated land in farms (acres)		
Metropolitan	159,636	96,682	145,466
Irrig. Plns.	668,877	572,036	688,908
Mountain	44,329	10,736	42,926
Dry Plains	107,009	107,214	126,810
SPRB	979,851	786,668	1,004,110

Source: U. S. Census of Agriculture, 1949, 1954, 1959.

TABLE c-14

THE NUMBER OF FARMS BY TYPE OF FARM IN THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS

Area	Field crop farms (other than vegetable)			Livestock farms (other than poultry & dairy)		
	1949	1954	1959	1949	1954	1959
Metropolitan	824	347	677	619	808	582
Irrig. Plns.	2,939	2,061	2,019	2,266	2,360	2,223
Mountain	6	-	-	111	109	70
Dry Plains	2,814	2,557	2,712	1,775	1,731	1,475
SPRB	6,583	4,965	5,408	4,771	5,008	4,350
	Vegetable farms			General farms		
Metropolitan	497	340	147	350	132	121
Irrig. Plns.	152	70	62	1,789	1,498	1,007
Mountain	-	-	-	31	6	5
Dry Plains	-	-	-	597	402	172
SPRB	649	410	209	2,767	2,038	1,305
	Poultry farms			Misc. & Unclass. farms		
Metropolitan	449	264	594	2,062	1,593	993
Irrig. Plns.	192	126	77	969	1,022	978
Mountain	3	5	0	74	58	61
Dry Plains	110	97	27	529	451	493
SPRB	754	474	698	3,634	3,124	2,525
	Dairy farms					
Metropolitan	670	804	399			
Irrig. Plns.	634	1,091	746			
Mountain	15	-	-			
Dry Plains	403	396	151			
SPRB	1,722	2,291	1,296			

Source: Same as c-13

TABLE c-15

AGRICULTURAL INCOME IN THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS (Dollars)

Area	All farm products sold		
	1949	1954	1959
Metropolitan	46,280,248	47,048,193	63,428,396
Irrig. Plns.	131,375,157	139,173,746	218,173,746
Mountain	1,626,857	1,248,885	2,109,773
Dry Plains	65,152,560	56,400,358	84,044,339
SPRB	244,434,822	243,871,182	367,836,850
	Average farm products sold per farm		
Metropolitan	8,408.48	11,127.76	21,023.66
Irrig. Plns.	14,594.00	16,757.83	29,465.96
Mountain	6,778.57	6,573.08	14,255.22
Dry Plains	10,451.16	9,808.76	16,162.37
SPRB	11,650.85	13,201.49	23,322.14
	All crops sold		
Metropolitan	19,566,322	11,227,811	22,674,448
Irrig. Plns.	51,007,111	41,481,214	62,157,847
Mountain	155,132	42,085	102,272
Dry Plains	34,133,921	29,229,496	43,296,055
SPRB	104,862,486	81,980,606	128,230,622
	All livestock and livestock products sold		
Metropolitan	25,591,669	35,820,382	40,753,948
Irrig. Plns.	80,338,716	97,692,532	156,096,495
Mountain	1,443,443	1,206,800	2,007,501
Dry Plains	31,001,545	27,170,859	40,748,284
SPRB	138,375,373	161,890,573	239,606,228

Source: Same as c-13

TABLE c-15--Continued

Area	Cattle and/or calves sold alive		
	1949	1954	1959
Metropolitan	12,812,435	24,729,684	20,046,363
Irrig. Plns.	61,982,244	77,475,296	133,678,036
Mountain	1,176,041	961,716	1,717,254
Dry Plains	23,189,142	15,414,647	26,157,827
SPRB	99,159,862	118,581,343	181,599,480
	Value of sales - poultry and poultry products		
Metropolitan	4,067,764	2,860,711	2,351,873
Irrig. Plns.	2,279,954	2,051,455	2,636,887
Mountain	31,951	26,276	22,036
Dry Plains	1,757,019	1,318,411	1,122,221
SPRB	8,136,688	6,256,853	6,133,017
	Value of sales - any livestock sold alive (cattle, horses, mules, hogs, and sheep)		
Metropolitan	15,645,985	27,219,895	32,247,209
Irrig. Plns.	71,239,456	86,035,063	140,758,130
Mountain	1,318,465	1,083,130	1,919,195
Dry Plains	26,554,909	22,902,201	36,748,537
SPRB	114,758,815	137,240,289	211,673,071
	Livestock and livestock products other than poultry or dairy		
Metropolitan	16,060,233	27,335,699	32,383,169
Irrig. Plns.	71,453,819	86,328,758	141,056,668
Mountain	1,377,919	1,166,705	1,978,266
Dry Plains	25,384,311	23,478,553	37,164,610
SPRB	114,276,282	138,309,715	212,582,713

Source: Same as c-13

TABLE c-15--Continued

Area	Any milk or cream sold		
	1949	1954	1959
Metropolitan	5,461,607	5,623,972	6,018,906
Irrig. Plns.	6,600,402	9,312,319	12,402,940
Mountain	33,538	13,819	7,199
Dry Plains	2,259,469	2,373,895	2,461,449
SPRB	14,355,016	17,324,005	20,890,494

Source: Same as c-13

TABLE c-16

AGRICULTURAL COSTS IN THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS
(Dollars)

Area	1949	1954	1959
	Feed for livestock and poultry		
Metropolitan	7,189,317	12,728,910	12,163,560
Irrig. Plns.	15,278,290	26,725,383	38,569,064
Mountain	200,204	331,447	209,461
Dry Plains	6,172,642	7,303,425	6,570,305
SPRB	28,840,403	47,089,165	57,512,390
	Purchase of livestock and poultry		
Metropolitan	Not Available	Not Available	18,991,099
Irrig. Plns.			81,984,604
Mountain			447,418
Dry Plains			13,288,563
SPRB			114,711,684
	Machine hire		
Metropolitan	1,105,593	529,688	1,129,929
Irrig. Plns.	3,470,100	2,701,102	3,645,982
Mountain	25,634	22,040	53,810
Dry Plains	2,663,973	2,141,888	2,948,112
SPRB	2,265,300	5,394,718	7,777,833
	Seeds, bulbs, plants, etc.		
Metropolitan	Not Available	Not Available	847,965
Irrig. Plns.			1,892,843
Mountain			2,085
Dry Plains			691,425
SPRB			3,434,318

Source: Same as c-13

TABLE c-16--Continued

Area	Gasoline and other petroleum fuels and oil		
	1949	1954	1959
Metropolitan	1,993,095	2,003,401	2,426,413
Irrig. Plns.	6,048,720	6,602,486	7,704,054
Mountain	83,660	85,692	100,403
Dry Plains	4,346,007	4,627,531	4,540,908
SPRB	12,471,482	13,319,110	14,771,778
	Hired labor		
Metropolitan	5,229,633	4,874,338	5,884,373
Irrig. Plns.	10,631,941	8,190,301	10,400,091
Mountain	398,837	341,120	281,867
Dry Plains	4,681,778	3,771,255	4,189,760
SPRB	20,942,189	17,177,064	20,756,091

Source: Same as c-13

TABLE c-17

CROP ACREAGES IN THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS

Area	Corn for all purposes			Oats harvested		
	1949	1954	1959	1949	1954	1959
Metropolitan	37,393	22,414	31,761	11,344	3,386	9,067
Irrig. Plns.	142,890	125,166	204,900	40,388	16,067	24,533
Mountain	-	-	-	261	-	15
Dry Plains	131,488	90,212	89,144	60,588	33,135	29,787
SPRB	311,771	237,792	325,805	63,402	52,588	112,581
	Vegetables harvested for sale			Land from which hay was cut		
Metropolitan	10,226	6,986	5,523	73,884	59,159	61,286
Irrig. Plns.	10,870	6,647	10,257	226,413	234,400	237,402
Mountain	8	-	-	47,087	22,959	39,383
Dry Plains	362	78	162	185,295	186,959	185,790
SPRB	21,466	13,711	15,942	512,639	503,477	523,861
	Sorgums for all purposes			Barley harvested		
Metropolitan	11,226	8,917	10,041	99,333	41,049	73,218
Irrig. Plns.	30,889	40,968	23,928	264,450	127,783	151,752
Mountain	-	30	-	330	-	35
Dry Plains	71,248	104,241	96,358	418,187	211,761	505,790
SPRB	113,363	154,156	130,327	782,300	380,593	730,795
	Beans harvested for beans			Wheat harvested		
Metropolitan	3,830	942	1,411	233,784	151,184	212,281
Irrig. Plns.	78,125	70,318	53,264	562,024	467,063	610,741
Mountain	-	-	-	60	-	-
Dry Plains	17,958	8,252	9,220	917,369	788,197	878,828
SPRB	99,913	79,512	63,895	1,713,237	1,406,444	1,701,850

Source: Same as c-13

TABLE c-17--Continued

Area	Rye harvested			Irish potatoes for home use or sale		
	1949	1954	1959	1949	1954	1959
Metropolitan	591	489	2,318	69	30	104
Irrig. Plns.	1,536	5,224	6,681	16,368	12,778	14,485
Mountain	-	-	-	44	1	4
Dry Plains	5,827	13,027	23,972	6,381	3,374	2,555
SPRB	12,954	18,740	32,971	22,862	16,183	17,148
	Sugar beets for sugar					
Metropolitan	6,917	4,331	6,110			
Irrig. Plns.	85,395	81,803	106,756			
Mountain	-	-	-			
Dry Plains	6,233	7,961	7,624			
SPRB	98,545	94,095	120,490			

Source: Same as c-13

TABLE c-18

IRRIGATED CROP ACREAGES IN THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS

Area	Corn		Sugar beets	
	1954	1959	1954	1959
Metropolitan	15,995	26,881	[illegible]	5,830
Irrig. Plns.	97,716	182,966	[illegible]	106,534
Mountain	-	-	1	0
Dry Plains	17,628	33,514	7,878	7,603
SPRB	131,339	243,361	92,140	119,967
	Wheat		**Beans**	
Metropolitan	2,791	6,611	775	3,088
Irrig. Plns.	9,639	18,308	67,664	47,783
Mountain	-	-	-	-
Dry Plains	1,526	2,049	7,076	8,144
SPRB	13,956	26,968	75,515	59,015
	Alfalfa & Misc.		**Irish potatoes**	
Metropolitan	29,990	45,447	28	103
Irrig. Plns.	157,117	156,888	12,610	3,507
Mountain	545	1,600	1	0
Dry Plains	24,539	22,012	2,429	1,577
SPRB	212,191	225,953	15,068	5,187
	Wild hay			
Metropolitan	28	103		
Irrig. Plns.	12,610	3,507		
Mountain	7,053	33,647		
Dry Plains	8,436	9,425		
SPRB	23,565	48,518		

Source: Same as c-13

(b) Mining

Trends in the production of metallic and non-metallic minerals and mineral fuels in the South Platte River Basin are shown in the following series of tables. The total value of mineral production in the basin in 1963 was about $121,248,552 which was only about one-third the value of agricultural production and one-tenth the value added by manufacturing, or just a little less than eight percent of the total value of commodity production in the region. The 1963 figure represents a decrease in value of production of more than thirteen percent from 1962. The 1964 production of $111,509,925 is a further decline of eight percent in the following year. It is evident that mineral production is not now of major importance in the South Platte River Basin and is declining in importance. Its relative importance varies among the subregions of the basin.

8 111,50[illegible]

It is least important in the Metropolitan Subregion where 1964 production was about $12,124,213. The most important minerals here are the non-metallic building materials.

Sand and gravel comprised 62 percent of production by value with clay and stone accounting for another 10 percent of the total. This is, of course, directly related to the amount of construction taking place in the Metropolitan Subregion, but is generally increasing in volume. Petroleum production was nearly one and a half million dollars in 1964, a decrease of nearly one-half from five years earlier. Metallic mineral production was only ten percent of the total value and was mostly uranium oxide mined in Jefferson County. Metals have been important in the early development of the subregion particularly Boulder County.

Mineral production was a larger part of the value originating in the Irrigated Plains Subregion, \$45½ million out of an approximate total of \$339 million. More than half of this was mineral fuels, mostly petroleum (\$22 million) and gas (\$2 million). Nearly \$4 million worth of coal, the only coal in the South Platte River Basin, was produced from six mines with a daily capacity of 6,450 tons. The value of crude oil production has fallen more than half in the past five years. Coal production on the other hand has remained fairly constant and can anticipate an increasing demand from the electric utility industry which is the major user. Weld County coal mines are underground mines (245-430 feet deep) with the consequent competitive disadvantage of higher production costs than the strip mines in western Colorado. Nevertheless Weld County coal at \$4.12 a ton (compared to strip mine coal at \$3.43) sells below the state average price of \$5.38. Metal production is of little significance in this subregion.

Production of non-metallic minerals was valued at more than $13 million dollars in 1964. Production of cement at $8 million was the most important of these. Most of the output was used in Colorado and immediately surrounding states, but shipments were made as far away as Ohio and Tennessee. Stone production of $1.7 million was almost entirely from Larimer County which is the major souce of stone in the South Platte River Basin. The most important types of stone were limestone (70 percent), granite (15 percent), and sandstone (3 percent). Ninety-nine percent of the output was broken or crushed stone and in order of quantity used went into cement (limestone and sandstone), concrete and road stone (all types except basalt), dam embankments (granite, and flux (limestone)). Sand and gravel production ($3.7 million) was nearly ten percent of the total value of mineral production in the subregion.

The fortunes of the Mountain counties have historically been closely related to mining production, and it is the only subregion within the South Platte River Basin where metal mining remains important. Silver, which accounted for about one-third of the $677,951 total value of minerals produced, was the most important single mineral. Clear Creek County is the only place in the South Platte River Basin where silver is mined separately and not just as a by-product of lead-zinc ores.

Molybdenum has just this year become a significant metal in this region with the development of a mine in Gilpin County. Small amounts of other metals are produced. Among the non-metals, sand and gravel are the most important, nearly equaling silver production in value. Peat if also of some significance. No mineral fuels are produced here.

The Dry Plains Subregion has the largest mineral production of the subregions of the South Platte River Basin. The value of mineral production here is several times the value added by manufacturing and approaches the agricultural output of the subregion in value. Petroleum and natural gas comprise more than ninety percent of the value of output. Two-thirds of the petroleum output of the South Platte River Basin takes place here. Washington County, Colorado, is the biggest producer closely followed by Kimball and Cheyenne Counties, Nebraska. Although petroleum production is declining here, 29 percent in the past five years, it is not declining as rapidly as elsewhere in the South Platte River Basin. No metals are produced in the Dry Plains Subregion. Sand and gravel production exceeded two million dollars and was concentrated in Douglas and Laramie Counties near the big cities. Stone production of nearly one and one half million dollars was almost entirely in Laramie County.

The mineral industry in the South Platte River Basin is relatively small in overall value of production of the basin. It is, however, of significance in subareas and provides support to other industries. Metal production in the South Platte River Basin is of declining importance, being only about one percent of total mineral production or approximately one-tenth of one percent of commodity production. It is concentrated in the Mountain Subregion. Non-metals, mostly building materials accounted for about one quarter of the mineral production in 1964. Although production occurred in all counties of the basin and fluctuates with road building and other construction activity, it is generally increasing and tends to concentrate in the Metropolitan Subregion. Mineral fuels provide two-thirds of the value of mineral production in the basin. Petroleum is the major part of this amount and is predominantly in the Dry Plains portion of the basin. Large scale production began in the early 1950's, reached a peak in 1956 and has declined steadily (37 percent by 1964) since. Inasmuch as exploration and development are also declining, it is quite likely that the downward trend will continue. Four refineries were operated all year round in the Denver Metropolitan Area in 1964 (a fifth closed down in 1963). The total throughput of these refineries (and one at Alamosa) was 11.2 million barrels (42 gallon barrels) in 1964, down 15 percent from the preceding year. Only 10 percent of this throughput was Colorado oil. The balance was imported from Wyoming (84 percent) Montana and New Mexico. Basin oil on the other hand went to refineries in Wyoming, Kansas, Illinois, Ohio, and elsewhere for refining.

Tables c-19 through c-31 give detailed data on mineral production in the South Platte River Basin by mineral commodity and County.

Table c-32 and c-33 show changes in the number of establishments engaged in mining activities, the number of employees and value added by mining. The unavailability of figures for most counties in the 1958 census makes it impossible to draw any conclusions about value added in mining.

TABLE c-19

MINERAL PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS AND COUNTIES, 1962-1964 (DOLLARS)

County	1962	1963	1964	Minerals Produced in 1964, in Order of Value of Prod.
Metro.				
Adams	5,649,310	4,909,591	3,913,896	Sand & gravel, petroleum, natural gas, lime, gold, stone, silver
Arapahoe	1,886,740	1,384,493	1,782,428	Sand & gravel, stone
Boulder	1,863,995	1,536,180	2,078,687	Sand & gravel, fluorspar, lime, stone, gold, clays, peat, silver, petroleum, uranium ore, vanadium, copper, lead, zinc
Denver	348,390[a]	256,930[a]	211,457[a]	Sand & gravel
Jefferson	4,582,910	3,920,197	4,137,745	Sand & gravel, uranium ore, clays, stone, gold, fluorspar, copper, silver, lead
	14,331,325	10,471,211	12,124,213	
Irr. Plns.				
Larimer	13,723,583	14,008,932	12,565,663	Cement, stone, petroleum, sand & gravel, lime, gypsum, iron ore, uranium ore, gold, vanadium, silver
Logan	15,600,246	14,240,106	12,095,670	Petroleum, natural gas, natural gas liquids, sand & gravel, lime, stone
Morgan	19,900,418	14,223,509	10,156,000	Petroleum, natural gas liquids, natural gas, sand & gravel, lime
Weld	9,573,843	9,573,308	10,721,932	Petroleum, coal, sand & gravel, natural gas liquids, stone
	58,798,090	52,045,855	45,539,265	

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[a] These figures were from the Colorado Bureau of Mines' Annual Report and are not strictly comparable to the other figures which are from the U.S. Bureau of Mines' Mineral Yearbook.

Source: U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1962, 1963, 1964

TABLE c-19 Continued

County	1962	1963	1964	Minerals Produced in 1964, in Order of Value of Prod.
Mountain				
Clear Cr.	101,671	388,346	301,065[a]	Silver, sand & gravel, zinc, lead, gold, copper, stone, iron ore
Gilpin	23,899	10,671	89,464	Molybdenum, peat, gold, sand & gravel, silver, zinc, lead, copper
Park	186,136[a]	325,260	287,422	Sand & gravel, peat, stone, lead, silver, zinc, gold, copper
	311,706	724,277	677,951	
Dry Plns.				
Douglas	830,251	924,509	824,647	Sand & gravel, clays, stone
Elbert	D[b]	D[b]	91,344[a]	Clays, sand & gravel
Sedgwick	155,594	225,000	203,000	Sand & gravel, lime, natural gas
Wash.	27,570,534	21,929,054	19,161,000	Petroleum, natural gas liquids, natural gas, sand & gravel
Cheyenne	12,773,000	11,913,000	10,467,000	Petroleum, natural gas, LP gases, natural gasoline, sand & gravel
Deuel	717,000	551,000	453,000	Natural gas, LP gases, natural gasoline
Keith	73,200	122,000	230,000	Sand & gravel
Kimball	22,739,900	19,827,000	18,409,000	Petroleum, LP gases, natural gasoline, natural gas, sand & gravel
Laramie	1,772,996	2,515,646	3,329,505	Stone, petroleum, sand & gravel, natural gas
	66,632,475	58,007,209	53,168,496	
South Platte River Basin	140,073,596	121,248,552	111,509,925	

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[a] These figures were from the Colorado Bureau of Mines' Annual Report and are not strictly comparable to the other figures which are from the U.S. Bureau of Mines Mineral Yearbook.

[b] Data withheld because of disclosure rule

Source: U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1962, 1963, 1964

TABLE c-20

PRODUCING OIL FIELDS IN THE SOUTH PLATTE RIVER BASIN, 1964

Area	Number of Producing Fields, 1964	Name of Principal Fields in 1964 in Order of Production
Metropolitan		
Adams	19	Badger Creek, Deer Trail, Middlemist, Beacon, Windy Hill
Boulder	1	Boulder
Irrigated Plains		
Larimer	3	Loveland, Fort Collins, Wellington
Logan	70	Northwest Graylin, Divide, Lewis Creek, Minto, West Padroni, Yenter, Mount Hope
Morgan	47	Adena, Sand River, Zorichak, Bijou, West Bijou
Weld	39	Black Hollow, Pierce, Southwest Roggen, New Raymer, Indian Cave, Mustang
Dry Plains		
Washington	66	Plum Bush Creek, Big Beaver, Bison, Little Beaver, Rush Willadel, Blade
Cheyenne	66	Reimers, Juelfs-Gaylord, Doran, Cook, Prelle
Kimball	128	Sloss, Kimball, Ave-Griffith, Enders, Heidmann, Long, Houtby, Jacinto
Laramie	6	Horse Creek

Source: U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1964

198

TABLE c-21

VALUE OF PETROLEUM PRODUCED IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1960-1964, & CUMULATIVE VALUE
(DOLLARS)

Area	1964	1963	1962	1961	1960	Cumulative Values	
						Period	Total
Metro.							
Adams	1,417,487	1,376,770	1,751,005	2,636,645	2,731,327	1954-63	25,013,492
Boulder	5,743	6,578	7,474	7,465	7,076	1954-63	69,084
Jefferson	-[a]	-[a]	-[a]	-[a]	-[a]	1955-59	43,203
	1,423,230	1,383,348	1,758,479	2,643,721	2,738,403		25,125,779
Irr. Plns.							
Larimer	1,130,901	789,759	529,240	542,346	556,635	1954-63	5,445,346
Logan	10,067,288	12,088,276	13,282,459	12,914,500	13,290,146	1954-63	171,139,996
Morgan	6,575,063	9,774,158	15,923,485	25,953,898	26,971,693	1954-63	200,657,053
Weld	4,583,978	5,154,501	4,987,011	4,326,690	4,593,032	1954-63	45,361,652
	22,357,230	27,806,694	34,722,195	43,737,434	45,411,506		422,604,047
Dry Plns.							
Washington	17,924,685	20,646,021	25,865,027	26,935,606	23,289,816	1954-63[b]	103,264,277[b]
Cheyenne	8,873,285	9,339,840	10,627,200	10,241,280	11,007,360	n.a.	n.a.
Kimball	18,181,440	19,494,720	22,210,560	25,856,640	29,871,360	n.a.	n.a.
Laramie	1,149,120	1,252,800	987,840	829,440	884,160	n.a.	n.a.
	46,128,530	50,733,381	59,690,627	63,862,966	65,052,696		
South Platte River Basin	69,908,990	79,923,423	96,171,301	110,244,121	113,202,605	n.a.	n.a.
Colorado	100,094,319	110,255,922	122,334,164	135,600,939	137,659,418	1954-63	1,275,742,561

[a] No production in that year.

[b] The data was not available

Source: Colorado Oil & Gas Commission, Colorado Oil & Gas Statistics
U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1960-1964

TABLE c-22

PETROLEUM PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS,
COUNTIES AND COLORADO, 1930-1940
(42 GAL. BARRELS)

Area	1964	1963	1962	1961	1960	1956	1950	1940	1930
Metro.									
Adams	492,183	478,045	607,988	909,188	941,873	1,067,442	–[a]	–[a]	–[a]
Boulder	1,994	2,284	2,596	2,574	2,404	2,780	7,393	4,405	6,935
Jefferson	–[a]	–[a]	–[a]	–[a]	–[a]	2,825	–	–	–
	494,177	480,329	610,584	911,762	944,277	1,073,047	7,393	4,405	6,935
Irr. Plns.									
Larimer	392,674	274,222	183,764	187,047	191,943	181,709	129,618	130,988	493,840
Logan	3,495,586	4,197,318	4,611,965	4,453,276	4,582,903	7,971,445	92,509	–	–
Morgan	2,283,008	3,393,305	5,530,434	8,949,620	9,300,584	7,378,408	5,650	–	–
Weld	1,591,659	1,789,757	1,731,564	1,491,962	1,583,812	1,825,924	21,375	8,857	13,782
	7,762,927	9,655,102	12,057,727	15,081,905	15,659,242	17,357,486	249,152	139,845	507,622
Dry Plns.									
Wash.	6,223,849	7,168,757	8,980,912	9,288,140	8,032,673	7,214,095	–	–	–
Cheyenne	3,081,000	3,243,000	3,690,000	3,556,000	3,822,000	4,589,000	n.a.[b]	n.a.[b]	n.a.[b]
Kimball	6,313,000	6,769,000	7,712,000	8,978,000	10,372,000	7,627,000	n.a.	n.a.	n.a.
Laramie	399,000	435,000	343,000	288,000	307,000	468,000	n.a.	n.a.	n.a.
	16,016,849	17,615,757	20,725,912	22,110,140	19,777,912	19,898,095			
South Platte River Basin	24,273,953	27,751,188	33,394,223	38,103,807	36,381,431	38,328,628	n.a.	n.a.	n.a.
Colorado	34,754,972	38,283,304	42,478,550	46,758,976	47,482,571	58,537,662	23,262,269	1,709,411	1,680,107

[a] No production in that year.
[b] Data was not available

Source: Colorado Oil & Gas Commission, Colo. Oil & Gas Statistics. U.S. Bureau of Mines, Mineral Yearbook, Vol. 111, 1963,1964.

TABLE c-23

COAL PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND COLORADO, 1920-1964
(TONS)

Area	1964	1963	1962	1961	1960	1950	1940	1920
Metropolitan								
Boulder	-[a]	-[a]	-[a]	-[a]	-[a]	109,565	623,680	1,230,347
Jefferson	-	-	-	-	-	10,881	147,725	176,427
	-	-	-	-	-	120,446	771,505	1,406,774
Irrigated Plains								
Larimer	-	-	-	-	-	-	2,302	-
Weld	765,450	721,032	786,457	794,443	741,506	778,378	1,215,363	944,803
	765,450	721,032	786,457	794,443	741,506	778,378	1,217,665	944,803
Dry Plains								
Elbert	-	-	-	-	-	1,020	5,601	-
	-	-	-	-	-	1,020	5,601	-
South Platte River Basin	765,450	721,032	786,457	794,443	741,506	899,844	1,994,771	2,350,577
Colorado	4,400,702	3,707,440	3,392,570	3,700,692	3,624,572	4,274,887	6,672,579	12,514,693

[a] No production in that year

Source: Colorado State Planning Division, Colorado Yearbook, 1962-64, p.544. Colorado Coal Mine Inspection Department, Annual Reports.

TABLE c-24

GOLD PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1960-64, & CUMULATIVE VALUE
(DOLLARS)

Area	1964	1963	1962	1961	1960	Past Production	
						Period	Value
Metropolitan							
Adams	21,525	2,186	41,185	41,110	10,000	1922-1963	478,800
Arapahoe	–[a]	–[a]	–[a]	–[a]	–[a]	1897-1941	17,187
Boulder	D[b]	8,386	–	–	2,210	1897-1963	25,013,350
Denver	–	–	–	–	–	1921-1956	44,761
Jefferson	12,005	2,902	–	17,028	–	1897-1963	479,389
	38,525	13,474	41,185	58,138	12,210		26,033,487
Irrigated Plains							
Larimer	D	–	–	–	–	1897-1950	37,274
		–	–	–	–		37,274
Mountain							
Clear Creek	9,275	1,109	4,417	77	59,000	1897-1963	33,387,737
Gilpin	4,375	295	11,549	15,823	1,424	1897-1963	89,921,058
Park	6,335	–	3,250	35	–	1897-1962	36,506,114
	17,985	1,404	19,216	15,935	60,424		159,814,909
Dry Plains							
Douglas	–	–	–	–	–	1897-1948	20,572
Elbert	–	–	–	–	–	1926-1940	3,904
	–	–	–	–	–		24,476
South Platte River Basin	53,510	14,878	60,401	74,073	72,634		185,910,146
Colorado	1,474,270	1,155,146	1,258,712	2,353,294	1,968,887		935,102,497

[a] No production in that year.
[b] Data withheld because of disclosure rule.

Source: Colo. State Planning Div., Colo. Yearbook, 1962-1964, p. 546

TABLE c-25

ZINC PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1960-64 & CUMULATIVE VALUE
(DOLLARS)

Area	1964	1963	1962	1961	1960	Past Production	
						Period	Value
Metropolitan							
Boulder	D[b]	-[a]	-[a]	-[a]	-[a]	1941-1950	4,583
Jefferson	-	-	-	-	-	1943	216
							4,799
Irrigated Plains							
Larimer	D	-	-	-	-	1951	2,912
							2,912
Mountain							
Clear Creek	34,816	6,648	2,200	1,134	-	1897-1963	3,136,439
Gilpin	435	-	361	1,698	-	1905-1962	115,176
Park	15,858	-	-	418	-	1908-1961	1,190,600
	51,109	6,648	2,561	3,250	-		4,442,215
South Platte River Basin	51,109	6,648	2,561	3,250	-		4,449,926
Colorado	14,601,504	13,100,189	10,346,567	9,915,917	8,172,924		373,786,324

[a] No production in that year

[b] Data withheld because of disclosure rule

Source: Colorado State Planning Division, Colorado Yearbook, 1962-1964, p. 545

TABLE c-26

SILVER PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1960-64, CUMULATIVE VALUE & NUMBER OF PRODUCING MINES
(DOLLARS)

Area	1964	1963	1962	1961	1960	Past Production		Mines Prod.	
						Period	Value	1964	1963
Metropolitan									
Adams	107	945	2,067	9,400	-[a]	1922-1964	13,991	7	4
Arapahoe	-[a]	-[a]	-[a]	-[a]	-[a]	1897-1941	69	-	-
Boulder	D[b]	2,272	-	-	6,643	1897-1963	8,627,603	2	D[b]
Denver	-	-	-	-	-	1932-1935	8	-	-
Jefferson	25	19	-	71	-	1897-1964	10,190	5	5
	182	3,236	2,067	9,471	6,643		8,651,679		
Irrigated Plns.									
Larimer	D	-	-	-	-	1897-1951	2,309	1	-
Mountain									
Clear Creek	211,640	311,790	8,861	9,537	21,000	1897-1962	55,474,797	9	8
Gilpin	508	1,800	993	1,176	100	1897-1963	9,107,291	7	D
Park	19,834	105,000	520	-	-	1897-1963	7,454,280	4	6
	231,982	218,590	10,374	10,713	21,100		72,036,368		
Dry Plains									
Douglas	-	-	-	-	-	1897-1915	244	35	23
South Platte River Basin	232,164	421,826	12,441	20,113	27,743		80,688,229	n.a.[c]	n.a.[c]
Colorado	3,395,975	2,994,812	1,861,452	1,634,394	1,311,946		605,617,020	77	n.a.

[a] No production in that year.
[b] Data withheld because of disclosure rule.
[c] Data is not available.

Source: Colo. State Planning Div., Colo. Yearbook, 1962-64, p.547

TABLE c-27

COPPER PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND COLORADO, 1960-64, AND CUMULATIVE VALUE
(DOLLARS)

Area	1964	1963	1962	1961	1960	Past Production	
						Period	Value
Metropolitan							
Boulder	D[b]	-[a]	-[a]	-[a]	266	1897-1960	299,856
Jefferson	196	-	-	-	-	1897-1954	83,341
	196	-	-	-	266		383,197
Irrigated Plains							
Larimer	D	-	-	-	-	1898-1917	29,527
Mountain							
Clear Creek	5,901	1,810	-	154	9,000	1897-1963	2,377,127
Gilpin	293	-	243	661	100	1897-1963	4,285,612
Park	3,716	-	-	420	-	1897-1961	572,331
	9,910	1,810	243	1,235	9,100		7,235,070
Dry Plains							
Douglas	-	-	-	-	-	1913	2,177
South Platte River Basin	10,106	1,810	243	1,235	9,366		7,620,444
Colorado	3,033,756	2,441,875	2,530,305	2,459,532	2,254,966		105,940,937

[a] No production in that year.
[b] Data withheld because of disclosure rule.
Source: Colorado State Planning Division, Colorado Yearbook, 1962-64, p.548.

TABLE c-28

LEAD PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND COLORADO, 1960-64, AND CUMULATIVE VALUE
(DOLLARS)

Area	1964	1963	1962	1961	1960	Past Production	
						Period	Value
Metropolitan							
Boulder	D[b]	-[a]	-[a]	-[a]	2,399	1897-1960	854,900
Jefferson	13	-	-	-	-	1897-1943	403
	13	-	-	-	2,399		855,303
Irrigated Plains							
Larimer	D	-	-	-	-	1902	2,958
Mountain							
Clear Creek	31,374	4,887	6,040	1,485	32,000	1897-1963	10,511,453
Gilpin	341	-	3,985	2,129	-	1897-1962	1,887,234
Park	21,969	-	-	-	-	1897-1959	3,009,152
	53,684	4,887	10,025	3,614	32,000		15,407,859
South Platte River Basin	53,697	4,887	10,025	3,614	34,399		16,266,100
Colorado	5,387,506	4,580,580	3,270,361	4,062,038	4,420,555		338,570,289

[a] No production in that year.
[b] Data withheld because of disclosure rule.
Source: Colorado State Planning Division, Colorado Yearbook, 1962-64, p.549

TABLE c-29

URANIUM PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COUNTIES, 1963-64 & THE NUMBER OF MINING OPERATIONS INVOLVED (DOLLARS)

Area	1964	1963	No. of Operations 1964	No. of Operations 1963
Metropolitan				
Boulder	D[b]	D[b]	2	2
Jefferson	1,046,039	1,001,299	4	5
Irrigated Plains				
Larimer	D	-[a]	2	-[a]
Mountain				
Park	-	D	-	2

[a] No production in that year.
[b] Data withheld because of disclosure rule.
Source: U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1963,1964

TABLE c-30

CLAY PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND COLORADO, 1962-64 (DOLLARS)

Area	1964	1963	1962
Metropolitan			
Arapahoe	-[a]	-[a]	600
Boulder	137,657[c]	40,000[c]	61,124
Jefferson	520,172	664,776	832,361
	657,829	668,776	894,085
Dry Plains			
Douglas	193,516	226,612	236,669
Elbert	80,296[c]	D[b]	D[b]
	273,812	226,612	236,669
South Platte River Basin	931,641	931,388	1,130,154
Colorado	1,275,016	1,333,896	n.a.[d]

[a] No production that year.
[b] Data withheld because of disclosure rule.
[c] These figures are from the Colorado Bureau of Mines Annual Report and are not strictly comparable to the other figures which are from the U.S. Bureau of Mines Mineral Yearbook.
[d] Data not available
Source: U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1963-64

TABLE c-30a

SAND & GRAVEL PRODUCTION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COUNTIES, 1963, 1964
(DOLLARS)

Area	1964	1963
Metropolitan		
Adams	2,018,000	3,298,000
Arapahoe	1,568,000	1,237,000
Boulder	1,173,000	876,000
Denver	348,000	256,930
Jefferson	2,387,000	2,090,000
	7,494,000	7,757,930
Irrigated Plains		
Larimer	801,000	1,612,000
Logan	334,000	277,000
Morgan	226,000	766,000
Weld	2,400,000	702,000
	3,761,000	3,357,000
Dry Plains		
Douglas	596,000	576,000
Elbert	45,000	229,000
Sedgwick	86,000	74,000
Washington	193,000	8,000
Cheyenne	74,000	-
Keith	230,000	122,000
Kimball	18,000	36,000
Laramie	917,000	188,000
	2,159,000	1,233,000
South Platte River Basin	13,674,000	12,538,930
Colorado	22,227,000	20,929,000

Source: U.S. Bureau of Mines, *Mineral Yearbook*, Vol. III, 1963, 1964.

TABLE c-31

STONE PRODUCTION IN THE SOUTH PLATTE RIVER BASIN,
SUBREGIONS, COUNTIES & COLORADO, 1963-64
(DOLLARS)

Area	1964	1963
Metropolitan		
Adams	6,264	803
Arapahoe	90,428	493
Boulder	194,308	151,796
Jefferson	164,170	133,195
	455,170	286,287
Irrigated Plains		
Larimer	1,681,052	1,780,808
Logan	13,670	2,053
Morgan	-[a]	5,509
Weld	16,458	73,557
	1,711,180	1,861,927
Mountain		
Clear Creek	2,632	-[a]
Park	1,215	50,452
	3,847	50,452
Dry Plains		
Douglas	35,131	121,092
Elbert	-	1,908
Washington	-	2,054
Laramie	1,401,505	1,238,646
	1,436,636	1,363,700
South Platte River Basin	3,606,833	3,562,366
Colorado	6,805,309	5,693,165

[a] No production in that year.

Source: U.S. Bureau of Mines, Mineral Yearbook, Vol. III, 1963-1964.

TABLE c-32

THE NUMBER OF ESTABLISHMENTS, NUMBER OF EMPLOYEES, & VALUE ADDED IN MINING, 1958, 1954, 1939

	1958			1954			1939		
	No. of Estbl.	No. of Emply.	Val. Add. Mining	No. of Estbl.	No. of Emply.	Val. Add. Mining	No. of Estbl.	No. of Emply.	Val. Add. Mining
Metro.									
Adams	41	193	n.a.[b]	29	199	n.a.[b]	-[a]	-[a]	-[a]
Arapahoe	16	156	n.a.	6	31	316	3	9	43,657
Boulder	23	225	n.a.	85	399	2,801	63	1,132	2,925,111
Denver	78	2,008	n.a.	42	564	n.a.	3	41	237,110
Jefferson	40	154	n.a.	71	234	2,039	15	199	502,327
	198	2,736	n.a.	233	1,427	5,156	84	1,381	3,708,205
Irr. Plns.									
Larimer	22	68	n.a.	22	58	n.a.	7	45	101,836
Logan	80	336	n.a.	34	159	n.a.	-	-	-
Morgan	82	260	n.a.	31	209	n.a.	-	-	-
Weld	63	357	n.a.	30	404	n.a.	16	1,283	2,902,621
	247	1,021	n.a.	117	830	n.a.	23	1,328	3,004,457
Mountain									
Clear Ck.	-	-	-	20	44	62	27	329	1,210,157
Gilpin	-	-	-	18	131	n.a.	21	93	347,199
Park	10	26	295	-	-	-	15	342	1,351,955
	10	26	295	38	175	62	63	764	2,909,311
Dry Plns.									
Douglas	-	-	-	7	25	177	3	11	26,276
Elbert	-	-	-	-	-	-	3	8	19,496
Sedgwick	-	-	-	-	-	-	-	-	-
Wash.	73	295	n.a.	19	103	n.a.	-	-	-
Cheyenne	47	276	n.a.	4	162	n.a.	-	-	-
Deuel	-	-	-	-	-	-	-	-	-
Keith	7	20	496	4	11	96	-	-	-
Kimball	123	509	n.a.	26	83	n.a.	-	-	-
Laramie	21	101	n.a.	6	119	n.a.	-	-	-
	271	1,201	496	66	503	273	6	19	45,772
South Platte River Basin	726	4,984	791	454	2,935	5,491	176	3,492	9,667,745
Colorado	992	14,273	255,896	n.a.	n.a.	n.a.	486	13,259	52,059,289

[a] No production in that year.

[b] Data is not available

Source: U.S. Bureau of Census, *Census of Mineral Industries*, 1939, 1954, 1958

TABLE c-33

THE PERCENTAGE CHANGE IN THE NUMBER OF ESTABLISHMENTS, NUMBER OF EMPLOYEES, & VALUE ADDED IN MINING IN THE SOUTH PLATTE RIVER BASIN & SUBREGIONS, 1939-54, 1954-58

Area	1939-54			1954-58		
	No. of Estbl.	No. of Emply.	Val.Add. Mining	No. of Estbl.	No. of Emply.	Val.Add. Mining
Metropolitan	177.380	3.330	39.050	-15.022	91.730	-100.000
Irrigated Plains	408.695	-37.500	n.a.[a]	111.111	23.012	n.a.[a]
Mountain	-39.683	-77.095	-97.869	-73.685	-31.579	375.806
Dry Plains	1000.000	2547.368	493.478	310.606	138.767	81.684
South Platte River Basin	757.954	-15.951	-43.205	59.911	69.812	-85.595

[a] Data is not available

Source: Table c-32

(c) Manufacturing Trends

The value added by manufacturing in the South Platte River Basin exceeded one billion dollars in 1963. This was an increase of 65 percent over five years previously and about the same rate of increase for each five year period since 1947. When we are talking about manufacturing in the South Platte River Basin, we are essentially talking about the Metropolitan Subregion, (and within the Metropolitan Subregion, Denver and Jefferson Counties.) Ninety percent of the value added in manufacturing originated in the Metropolitan Subregion, eight percent in the Irrigated Subregion. The rate of increase in the 1958-63 period, however, was greater in the Irrigated Plains Subregion. Shares of manufacturing employment were proportionally distributed through the Metropolitan Subregion's share of total payroll was slightly higher, indicating the Metropolitan Subregion was $3.00 per hour in 1963 compared to $2.22 in the Irrigated Plains Subregion. An average wage of $3.20 was paid to manufacturing employees in Laramie County in Wyoming, the only other place in the South Platte River Basin where there was any amount of manufacturing activity. The increase in the average hourly wage in manufacturing in the Metropolitan Subregion in the 1954-63 period was of the same magnitude as the increase in value added in manufacturing

(VAM) and employment. The increase in other areas of the Basin was slower (50 percent or less).

In terms of the number of firms engaged in manufacturing,[1] in the South Platte River Basin in 1964, those engaged in production of food and kindred products are the most important with 16 percent of the total number of manufacturing establishments (276 of 1,719). Printing and publishing establishments are 15 percent of the total; machinery (except electrical), 8 percent; fabricated metal products, 7.5 percent; and stone, clay, and glass products, 6.4 percent.

The largest increase in number of firms was in the stone, clay, and glass product (58 firms), machinery-except electrical (34 firms), fabricated metal products (32 firms), electrical machinery (31 firms), printing and publishing (29 firms), and food and kindred products (25 firms). The largest increase in firms with fifty employees or more was in food and kindred products with 11 such firms; electrical machinery, 9; stone, clay, and glass products, 6. In percentage terms the greatest increase occured in the number of establishments making rubber and plastic goods, electrical machinery and products, stone, clay, and glass products, machinery (except electrical) and fabricated metal products. Declines occured in firms making chemical and allied products and primary metal products, lumber and wood products, and petroleum and coal products.

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[1] Taken from social security data as published in County Business Patterns which understates somewhat the number of firms, as discussed in the later section on guide to data sources.

The dollar volume of manufacturing payrolls in the South Platte River Basin increased 65 percent in the 1958-63 period, and 60 percent in the 1954-58 period as compared to 84 percent in the earlier 1947-54 period. This again was primarily in the Metropolitan Subregion with the Irrigated Plains and Dry Plains Subregions showing respectively smaller increases and a decrease in the Mountain Subregion.

Thus, the resource related to manufacturing remains important in the region. The most important of these, food and kindred products is likely to continue so as the decentralization trend in meat processing, for example, moves the processing plants closer to the raw material source (cattle) in which the region is well endowed. In addition, the growing population in the region is an increasingly attractive market. The stone, clay, and glass manufacturing seems to be expanding with the increase in construction in the region. Manufacture associated with other extractive raw materials, lumber and petroleum and coal is declining. However, the greatest increase in manufacturing appears to be in the non-resource related[2] industries. A comparison of percentage changes in number of firms, number of employees, payrolls and value added in manufacture between four successive five year periods (Table) since 1947 seems to indicate that the firms in the region are getting larger, their employees better paid, and either more productive or producing a higher value product.

Tables c-34 and c-35 relate data on manufacturing trends in the basin.

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[2] Development in these industries may be said to be resource related in their relationship to the climate--topography resource and the implications this has for the type of labor employed by these industries, but in general not in the sense of material inputs.

TABLE c-34

MANUFACTURING TRENDS IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO-NUMBER OF ESTABLISHMENTS, NUMBER OF EMPLOYEES, VALUE ADDED IN MANUFACTURING, 1947, 1954, 1958, 1963

	1963				1958			
	No. of Estbl.	No. of Emply.	Payroll (000 of $)	Val. Add. by Mfg. (000 of $)	No. of Estbl.	No. of Emply.	Payroll (000 of $)	Val. Add. by Mfg. (000 of $)
Metro.								
Adams	100	5,471	33,857	78,153	68	4,384	24,640	54,867
Arapahoe	148	3,795	22,080	40,043	98	2,926	13,226	26,970
Boulder	126	1,972	9,710	19,992	89	1,236	4,761	10,839
Denver	952	37,124	227,081	444,966	955	34,628	169,833	339,799
Jefferson	119	20,038	164,820	346,456	76	8,910	61,812	130,375
	1,445	68,400	457,548	929,610	1,286	52,084	274,272	562,850
Irr. Plns.								
Larimer	114	2,509	12,517	35,487	91	1,954	7,966	20,048
Logan	22	273	1,344	4,182	17	282	1,218	2,415
Morgan	15	324	1,690	4,340	15	313	1,369	3,934
Weld	89	2,330	11,780	33,862	77	1,722	7,651	18,354
	240	5,436	27,331	79,871	200	4,271	18,204	44,751
Mountain								
Clear Ck.	-[a]	-[a]	-[a]	-[a]	6	15	49	85
Gilpin	-	-	-	-	2	D[b]	D[b]	D[b]
Park	-	-	-	-	6	13	35	66
	-	-	-	-	14	28	84	151
Dry Plns.								
Douglas	-	-	-	-	5	277	D	D
Elbert	-	-	-	-	3	18	D	D
Sedgwick	-	-	-	-	3	133	D	D
Wash.	-	-	-	-	1	D	D	D
Cheyenne	-	-	-	-	9	60	197	605
Deuel	-	-	-	-	3	6	12	7
Keith	-	-	-	-	8	804	D	D
Kimball	-	-	-	-	6	36	154	364
Laramie	38	1,323	7,538	13,428	42	1,045	5,171	10,549
	38	1,323	7,538	13,428	80	2,379	5,534	11,525
South Platte River Basin	1,723	75,159	492,417	1,022,909	1,580	58,762	298,094	619,277
Colorado	2,409	92,659	591,473	1,202,958	2,242	75,542	390,918	781,943

[a] 1963 data for counties in which little manufacturing takes place were not available at the time of this study.

[b] Data withheld because of disclosure rule.

Source: U.S. Bureau of Census, *Census of Manufactures*, 1939, 1947, 1954, 1963.

TABLE c-34 Continued

	1954				1947			
	No. of Estbl.	No. of Employ	Payroll (000 of $)	Val.Add. by Mfg. (000 of $)	No.of Estbl.	No.of Employ	Payroll (000 of $)	Val. Add. by Mfg. (000 of $)
Metro.								
Adams	49	2,352	9,934	33,134	25	1,218	3,352	10,385
Arapahoe	61	2,566	11,062	16,912	26	1,318	3,926	4,632
Boulder	80	1,080	3,455	6,817	46	936	2,178	6,507
Denver	890	33,458	135,265	236,032	772	30,876	83,028	162,391
Jefferson	60	2,396	11,027	26,665	21	876	D[b]	6,305
	1,140	41,852	170,743	320,460	890	35,224	92,484	190,220
Irr. Plns.								
Larimer	73	1,164	3,782	10,016	57	1,211	2,729	10,653
Logan	15	322	1,114	1,732	11	291	718	2,100
Morgan	18	577	1,718	4,061	9	454	D[b]	D[b]
Weld	75	1,562	5,213	9,792	49	1,282	3,203	9,569
	181	3,625	11,827	25,601	126	3,238	6,650	22,322
Mountain								
Clear Ck.	8	D[b]	D[b]	D[b]	4	14	35	66
Gilpin	1	D	D	D	–[a]	–[a]	–[a]	–[a]
Park	5	14	20	25	1	D	D	D
	14	14	20	25	5	14	35	66
Dry Plns.								
Douglas	4	269	D	D	5	175	D	D
Elbert	4	16	44	91	2	D	D	D
Sedgwick	8	145	D	D	5	216	562	1,795
Wash.	1	D	D	D	2	D	D	D
Cheyenne	6	47	161	330	7	43	82	176
Deuel	3	6	9	27	3	10	11	34
Keith	6	617	D	D	5	159	D	D
Kimball	4	22	46	91	1	D	D	D
Laramie	37	840	3,551	6,489	24	569	1,695	4,953
	73	1,962	3,811	7,028	54	1,172	2,350	6,958
South Platte River Basin	1,408	47,453	186,401	353,114	1,075	39,648	101,519	219,566
Colorado	2,069	63,041	247,110	472,433	1,602	54,071	144,207	286,774

[a] No manufacturing firms located here.

[b] Data withheld because of disclosure rule.

Source: U.S. Bureau of Census, Census of Manufactures, 1939, 1947, 1954, 1963.

TABLE c-35

MANUFACTURING TRENDS PERCENTAGE CHANGE IN NUMBER OF ESTABLISHMENTS, NUMBER OF EMPLOYEES & VALUE ADDED IN MANUFACTURING IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COLORADO, 1947-54, 1954-58, 1958-63

	1947-54				1954-58			
Subregions	No. of Estbl.	No. of Employ	Payroll	Val.Add. Mining	No.of Estbl.	No.of Employ	Payroll	Val.Add. Mining
Metro.	28.089	18.816	72.695	68.468	12.807	24,448	60.634	75.638
Irr. Plns.	43.650	11.951	52.915	-2.384	10.497	17.820	53.918	74.801
Mountain	160.000	-[b]	-[b]	-[b]	-[b]	-7.143	75.000	164.000
Dry Plns.	35.185	64.163	82.795	70.000	9.589	21.253	46.907	66.138
South Platte River Basin	30.976	19.685	83.611	60.823	12.215	23.832	59.920	75.375
Colorado	29.151	16.589	71.357	64.740	8.361	19.829	58.195	65.514

TABLE c-35 Continued

	1958-63			
Subregions	No. of Estbl.	No. of Employ	Payroll	Val.Add. Mining
Metro.	12.363	31.326	66.822	65.161
Irr. Plns.	20.000	27.276	50.137	78.478
Mountain	-[b]	-[b]	-[b]	-[b]
Dry Plns.	-9.524	26.602[a]	45.774	27.291
South Platte River Basin	9.050	27.904[a]	65.188	65.177
Colorado	7.448	22.658	51.303	53.842

[a] Based on incomplete data which omits Dry Plains and Mountain Counties which have insignificant amount of manufacturing.

[b] Data not complete enough to permit comparison.

Source: Table c-34

(d) Trade

The total volume of trade (wholesale and retail) in the South Platte River Basin in 1963 as measured by sales was $5,191,704,000. This was an increase of 124 percent since 1948. The number of people employed was 99,313 (compared to 75,159 in manufacturing) and these people received a payroll of $398,944,000 (compared to $492,417,000 in manufacturing). A comparison with employment and payroll in manufacturing in the South Platte River Basin in 1963 indicates that the average compensation for workers in the trade sector was a little less than two-thirds that in manufacturing. Wholesale trade accounted for just under two-thirds of the total volume of trade but only thirty-nine percent of the payroll, twenty-nine percent of the employees and twenty percent of the establishments in the trade sector. All of which seems to indicate that the wholesale trade area of firms in the South Platte River Basin extends to a considerable extent beyond the basin boundaries, that the average wholesale establishment is bigger than the average retail establishment (both in terms of sales and number of employees) and that employees of wholesale establishments are paid better than employees of retail establishments.

A look at the trends in wholesale trade in the South Platte River Basin shows that the South Platte

River Basin did not much more than maintain its share of Colorado's wholesale trade in the 1948 to 1963 period. Within the basin, the Metropolitan Subregion with ninety-one percent of the wholesale trade in terms of sales, has somewhat larger firms and pays higher wages than elsewhere in the basin. The rate of growth in wholesale sales in the South Platte River Basin per five year period has declined from 35 percent in 1948-54 to 22 percent in 1958-63. The Metropolitan Subregion as the major component in the South Platte River Basin figures shows the same rates and trends. The Irrigated Plains Subregion has been the second largest component in the region and it showed the fastest rate of growth in the most recent (1958-1963) period with 41 percent increase in wholesale sales. Payrolls grew at a slower rate than sales in the 1948-54 period, just about equalled the sales growth rate in 1954-58 and have grown at a substantially faster rate (more than double) in the 1958-63 period, perhaps indicating a declining rate of profit in wholesale trade in the region. Growth in wholesale trade in the Dry Plains and Mountain Subregions has been very moderate or negative.

Metropolitan dominance is slightly less in retail trade with seventy-eight percent of South Platte River Basin sales taking place here in 1963. The Metropolitan Region is getting a slightly larger share of the South

Platte River Basin's retail sales overtime with about five percent more of the total in 1963 than in 1948 (about the same change as in wholesale trade). As in wholesale trade, the rate of increase in sales in retail trade is declining (from 43 percent 1948-54 to 29 percent 1958-63) while the rate of growth in payrolls is remaining constant, although discontinuously (41 percent in 1948-54 and 42 percent in 1958-63). The growth in sales in retail trade in the South Platte River Basin in the more recent period was somewhat greater than in wholesale trade while the growth in payrolls was smaller. In rate of change in sales, payroll, and employees, the Irrigated Plains Subregion edged ahead of the Metropolitan Subregion in the 1958-63 period. The Dry Plains Subregion after a growth spurt in retail trade in 1948-54 above the basin average, has grown at about half the rate that the basin as a whole has grown in the more recent two five-year periods. Tables c-36 to c-39 give more detailed information on volumes and rates of change the trade sector.

TABLE c-36

THE NUMBER OF ESTABLISHMENTS, SALES, PAYROLL & NUMBER OF EMPLOYEES IN WHOLESALE TRADE IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1948, 1954, 1958, 1963

Area	1963				1958			
	No.of Estbl.	Sales (000 of $)	Payroll (000 of $)	No.of Emply.	No.of Estbl.	Sales (000 of $)	Payroll (000 of $)	No.of Emply.
Metro.								
Adams	113	94,993	6,905	1,266	68	73,878	4,829	833
Arapahoe	154	79,720	6,025	1,007	73	64,186	1,914	489
Boulder	85	29,787	2,942	511	69	16,718	1,110	300
Denver	1,815	2,692,152	137,416	22,172	1,615	2,235,644	97,781	20,539
Jefferson	106	44,371	[illegible]	553	66	18,102	927	262
	2,273	2,941,023	[illegible]	25,509	1,891	2,408,528	106,561	22,423
Irr. Plns.								
Larimer	74	21,946	1,434	337	67	27,031	760	228
Logan	55	21,406	1,083	215	64	29,749	1,171	291
Morgan	46	38,483	1,109	508	48	24,416	820	270
Weld	146	98,547	3,761	630	141	46,975	2,253	643
	321	180,382	7,387	1,690	320	128,171	5,004	1,432
Mountain								
Clear Ck.	8	631	[illegible]	12	8	1,234	104	26
Gilpin	-[a]	-[a]	-[a]	-[a]	-[a]	-[a]	-[a]	-[a]
Park	3	845	[illegible]	17	3	691	32	7
	11	1,476	129	29	11	1,925	136	33
Dry Plns.								
Douglas	7	1,409	67	19	7	630	19	7
Elbert	9	1,883	[illegible]	25	11	1,910	29	15
Sedgwick	10	2,983	147	26	18	3,246	196	36
Wash.	15	8,223	[illegible]	53	16	5,626	145	23
Cheyenne	41	14,422	[illegible]	171	51	22,248	778	197
Deuel	11	13,489	[illegible]	48	12	10,159	93	25
Keith	22	14,566	309	87	25	15,355	342	100
Kimball	24	11,602	[illegible]	77	25	15,602	335	104
Laramie	97	40,309	[illegible]	501	96	35,013	2,202	525
	236	108,886	5,113	1,107	261	109,769	4,139	1,032
SPRB	2,841	3,231,767	[illegible]	28,335	2,483	2,648,413	115,840	24,920
Colorado	3,720	3,623,190	195,419	34,095	3,325	2,995,309	132,045	29,912

[a] No production in that year.

Source: U.S. Bureau of Census, Census of Business, Wholesale Trade, 1948, 1954, 1958, 1963

TABLE c-36 Continued

Area	1954 No. of Estbl.	1954 Sales (000 of $)	1954 Payroll (000 of $)	1954 No. of Emply.	1948 No. of Estbl.	1948 Sales (000 of $)	1948 Payroll (000 of $)	1948 No. of Emply.
Metro.								
Adams	52	21,184	1,477	379	36	12,479	640	279
Arapahoe	44	45,610	1,249	406	23	6,250	322	102
Boulder	57	13,499	732	274	49	9,290	487	203
Denver	1,418	1,669,064	74,844	17,379	1,292	1,235,789	62,396	19,222
Jefferson	42	10,532	719	197	15	2,188	111	43
	1,613	1,759,889	79,021	18,635	1,415	1,265,996	63,956	19,849
Irr. Plns.								
Larimer	62	17,383	1,389	389	55	11,874	350	146
Logan	55	33,164	1,224	342	46	21,995	644	288
Morgan	42	26,405	870	270	33	13,889	278	129
Weld	131	48,023	2,085	717	119	41,915	1,693	608
	290	124,975	5,568	1,718	253	89,673	2,965	1,171
Mountain								
Clear Ck.	6	D[b]	D[b]	D[b]	4	425	2	1
Gilpin	–[a]	–[a]	–[a]	–[a]	–[a]	–[a]	–[a]	–[a]
Park	3	D	D	D	4	395	25	9
	9	–	–	–	8	820	27	10
Dry Plns.								
Douglas	4	D	D	D	4	594	7	1
Elbert	10	1,052	18	11	11	1,588	29	12
Sedgwick	9	D	D	D	12	3,431	83	55
Wash.	17	5,195	149	36	16	4,583	75	27
Cheyenne	37	17,037	425	104	51	20,141	271	124
Deuel	12	D	D	D	13	11,509	83	45
Keith	19	14,266	145	58	25	9,210	189	86
Kimball	18	7,722	126	39	25	8,931	120	69
Laramie	73	36,106	1,779	457	68	34,131	1,622	521
	199	81,378	2,642	705	225	94,118	2,479	940
SPRB	2,111	1,966,242	87,231	21,058	1,901	1,450,607	69,427	21,970
Colorado	2,897	2,214,299	100,540	25,583	2,671	1,659,829	78,944	26,481

[a] No production in that year.

[b] Data withheld because of disclosure rule.

Source: U.S. Bureau of Census, Census of Business, Wholesale Trade, 1948, 1954, 1958, 1963.

TABLE c-37

THE PERCENTAGE CHANGE IN THE NUMBER OF ESTABLISHMENTS, SALES, PAYROLL, & NUMBER OF EMPLOYEES IN WHOLESALE TRADE, 1948-54, 1954-58, 1958-63

	1948-54				1954-58			
Area	No. of Estbl.	Sales (000)	Payroll (000)	No. of Emply.	No. of Estbl.	Sales (000)	Payroll (000)	No. of Emply.
Metro.	13.992	39.012	23.555	-6.117	17.234	36.856	34.851	20.327
Irr. Plns.	14.624	39.367	87.790	46.712	10.344	2.557	-10.130	-16.648
Mountain	12.500	–[a]	–[a]	–[a]	22.222	–[a]	–[a]	–[a]
Dry Plns.	-11.556	3.555[b]	14.570[b]	-25.000[b]	31.155	17.665	45.003	36.737
South Platte River Basin	11.046	35.546	25.958	-4.152	17.621	33.981	32.443	18.016
Colorado	8.461	33.405	27.356	-3.392	14.773	35.271	31.335	16.921

TABLE c-37 Continued

	1958-63			
Area	No. of Estbl.	Sales (000)	Payroll (000)	No. of Emply.
Metro.	20.200	22.108	47.029	13.762
Irr. Plns.	0.312	40.735	49.020	18.016
Mountain	–[a]	-23.325	-5.148	-12.122
Dry Plns.	-9.579	-0.823	23.532	7.267
South Platte River Basin	14.418	22.026	46.214	13.703
Colorado	11.379	22.599	47.994	13.984

[a] No production that year.

[b] Computed from figures adjusted to compensate for data withheld under disclosure law.

Source: Table c-36

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TABLE c-38

THE NUMBER OF ESTABLISHMENTS, SALES, PAYROLL, & NUMBER OF EMPLOYEES IN RETAIL TRADE IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1948, 1954, 1958, 1963

	1963				1958			
Area	No.of Estbl.	Sales (000 of $)	Payroll (000 of $)	No.of Emply.	No.of Estbl.	Sales (000 of $)	Payroll (000 of $)	No.of Emply.
Metro.								
Adams	765	110,593	11,786	3,732	474	55,051	5,331	2,055
Arapahoe	888	188,000	20,560	6,098	625	103,354	10,784	3,605
Boulder	665	134,759	16,088	4,817	741	81,230	8,351	3,151
Denver	4,131	857,090	120,147	33,781	4,700	833,078	101,384	35,980
Jefferson	1,211	242,821	27,289	7,995	701	109,986	10,030	3,875
	7,660	1,533,263	195,880	56,423	7,241	1,182,699	135,880	48,666
Irr. Plns.								
Larimer	742	89,058	9,707	3,137	672	64,174	6,118	2,346
Logan	212	30,654	3,373	1,021	212	25,583	2,540	912
Morgan	248	33,504	3,531	1,064	226	26,272	2,784	987
Weld	753	100,241	11,[illegible]	3,293	731	75,138	7,638	2,853
	1,955	253,454	27,655	8,515	1,841	191,167	19,080	7,098
Mountain.								
Clear Ck.	98	5,023	680	250	103	4,917	555	226
Gilpin	38	1,330	195	74	45	1,087	118	77
Park	44	1,714	143	40	42	1,546	94	49
	180	8,067	735	364	190	7,550	767	352
Dry Plns.								
Douglas	56	5,397	504	179	54	3,605	289	134
Elbert	38	2,003	134	50	42	1,793	108	49
Sedgwick	81	6,983	528	182	70	7,059	506	217
Wash.	70	6,070	463	154	70	6,138	544	207
Cheyenne	189	22,461	2,177	712	203	22,133	2,074	765
Deuel	54	5,309	460	142	67	4,710	391	147
Keith	151	15,065	1,458	449	174	13,374	1,144	469
Kimball	120	13,620	1,364	412	94	11,362	1,004	396
Laramie	537	88,245	10,920	3,396	588	72,649	8,602	2,960
	1,296	165,155	18,005	5,676	1,362	142,823	14,662	5,344
SPRB	11,291	1,959,937	242,268	70,978	10,634	1,524,239	170,389	61,460
Colorado	17,294	2,648,618	315,470	94,206	16,543	2,105,110	228,547	83,942

Source: U.S. Bureau of Census, Census of Business, Retail Trade, 1948, 1954, 1958, 1963.

TABLE c-38 Continued

Area	1954				1948			
	No.of Estbl.	Sales (000 of $)	Payroll (000 of $)	No.of Emply.	No.of Estbl.	Sales (000 of $)	Payroll (000of$)	No.of Emply.
Metro.								
Adams	421	38,105	3,534	1,450	324	18,279	1,440	807
Arapahoe	572	82,729	8,497	2,996	382	35,833	3,194	1,599
Boulder	631	57,053	6,017	2,430	600	42,358	3,940	2,194
Denver	4,466	696,494	86,089	32,218	4,223	510,219	68,032	30,737
Jefferson	591	70,220	6,113	2,262	493	30,370	2,497	1,299
	6,681	944,601	110,250	41,356	6,022	637,059	79,103	36,636
Irr. Plns.								
Larimer	565	48,345	4,719	1,991	579	40,314	3,645	2,010
Logan	220	27,094	2,637	967	229	19,422	1,845	926
Morgan	245	27,478	2,838	1,041	249	18,947	1,621	925
Weld	752	69,353	7,160	2,561	790	59,260	5,066	2,693
	1,782	172,270	17,354	6,560	1,847	137,943	12,177	6,554
Mountain								
Clear Ck.	81	4,304	442	222	102	3,298	312	208
Gilpin	36	835	100	52	31	406	44	29
Park	38	1,525	109	47	53	1,552	72	58
	155	6,664	651	321	186	5,256	428	295
Dry Plns.								
Douglas	72	3,660	258	129	47	1,936	133	68
Elbert	51	1,618	77	37	62	2,366	85	61
Sedgwick	78	6,536	468	193	84	5,459	339	211
Wash.	76	6,028	474	186	87	5,704	297	158
Cheyenne	192	19,877	1,995	843	166	13,604	1,135	581
Deuel	65	5,338	380	186	72	5,124	284	176
Keith	160	12,365	1,123	447	142	10,161	851	464
Kimball	91	6,960	547	228	74	5,192	391	209
Laramie	542	64,317	8,049	2,842	453	46,457	5,282	2,440
	1,327	126,699	13,371	5,091	1,187	96,003	8,797	4,368
SPRB	9,945	1,250,234	141,626	53,328	9,242	876,261	100,505	47,853
Colorado	15,468	1,726,759	187,214	72,595	15,426	1,257,095	130,759	67,415

Source: U.S. Bureau of Census, Census of Business, Retail Trade, 1948, 1954, 1958, 1963.

TABLE c-39

PERCENTAGE CHANGE IN THE NUMBER OF ESTABLISHMENTS, SALES, PAYROLL, & NUMBER OF EMPLOYEES, IN RETAIL TRADE IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COLORADO, 1948-54, 1954-58, 1958-63

Area	1948-54				1954-58			
	No.of Estbl.	Sales (000)	Payroll (000)	No.of Emply.	No.of Estbl.	Sales (000)	Payroll (000)	No.of Emply.
Metropolitan	10.943	48.275	39.375	12.883	8.381	25.206	23.247	17.675
Irrigated Plains	-3.520	24.884	42.514	.091	3.310	10.969	9.945	8.300
Mountain	-16.667	26.783	52.102	8.813	22.580	13.295	17.818	9.657
Dry Plains	11.794	31.974	51.994	16.552	2.637	12.726	9.655	4.969
South Platte River Basin	7.606	42.678	40.914	11.441	6.928	21.916	20.309	15.249
Colorado	.272	37.361	43.174	7.683	6.949	21.911	22.077	15.630

TABLE c-39 *Continued*

Area	1958-63			
	No.of Estbl.	Sales (000)	Payroll (000)	No.of Emply.
Metropolitan	8.548	29.641	44.149	15.939
Irrigated Plains	6.192	32.582	44.942	19.963
Mountain	-5.264	6.847	-4.173	3.409
Dry Plains	-4.846	15.634	22.820	6.212
South Platte River Basin	6.178	28.584	42.185	15.486
Colorado	4.539	25.818	38.032	12.229

Source: Table c-38

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(c) Services

Services are a rapid growth sector in the South Platte River Basin. Comparing the rate of growth in receipts in the service industries to rate of change in sales in trade and value added in manufacturing, services have grown faster than trade in each of the five year comparison periods, faster than manufacturing in 1948-54, but considerably slower in the second two periods though the differential was less in 1958-63 than 1954-58. In rate of growth of payroll, services far outdistanced either manufacturing or trade in 1954-58, but was far below them in 1958-63. In number of employees the rate of growth in the service sector has been similar to that in manufacturing and greatly ahead of trade. Payroll and employees are not a very good measure of change in the service sector, however, where half of the reporting establishments are single proprietorships with no paid employees. These small firms, however, account for only about ten percent of total receipts in this sector. In rate of change in number of establishments (including those without payroll), the service sector was about the same as manufacturing and considerably ahead of the trade sector in 1948-54, far in the lead of both sectors in 1954-58, and about the same as wholesale trade but much greater than manufacturing in 1958-63.

The service sector is an important one in the South Platte River Basin. Its position is not as impressive in absolute terms as it is in rate of growth, however. In 1963, total receipts in the service sector ($337,699,000) were only 6.5 percent of sales in the trade sector and 29 percent of value added in manufacturing. Payroll in the service sector of $95,439,000 in 1963 was less than one quarter the size of payroll in trade and only 19 percent of the payroll in manufacturing for that year. Furthermore, the average pay per employee ($3,500) was considerably below that in trade ($4,017) and manufacturing ($6,557). In number of employees (keeping in mind that this is to a considerable extent a single proprietor type of business) it is also relatively small. The 27,264 person employment in 1963 was 27 percent of the employment in trade and 36 percent of the employment in manufacturing. Only in number of establishment does it compare more favorably in numbers, and this is an indication of the small size of service establishments.

The Metropolitan Subregion, of course, has the lion's share of the service sector in the South Platte River Basin with 86 percent as measured by receipts, 89 percent in terms of payroll and 75 percent of the total number of establishments. This is a slightly higher (about five percent) than its share in 1948. Within the Metropolitan Subregion itself, Denver's share is declining as activity spills over into the suburban counties, although the Denver establishments seem to be the bigger ones. Tables c-40 and c-41 quantify the trends in selected services in the South Platte River Basin.

TABLE c-40

NUMBER OF ESTABLISHMENTS, RECEIPTS, PAYROLL, & NUMBER OF EMPLOYEES IN SELECTED SERVICES IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & COLORADO, 1948, 1954, 1958, 1963

Area	1963				1958			
	No.of Estbl.	Receipts (000of $)	Payroll (000of $)	No.of Emply.	No.of Estbl.	Receipts (000of $)	Payroll (000of $)	No.of Emply.
Metro.								
Adams	521	12,430	3,080	814	305	7,922	1,766	465
Arapahoe	753	24,617	6,216	1,755	479	12,565	3,464	1,138
Boulder	547	13,439	3,841	1,201	479	8,465	2,355	918
Denver	4,000	217,156	65,615	18,145	4,098	153,883	45,430	15,359
Jefferson	891	21,819	6,076	1,771	429	10,786	2,560	898
	6,712	289,461	84,828	23,686	5,790	193,621	76,775	18,778
Irr. Plns.								
Larimer	585	13,362	2,928	841	476	9,657	2,164	724
Logan	137	3,469	683	228	129	3,235	686	233
Morgan	178	2,707	529	198	167	2,866	651	284
Weld	366	8,231	1,825	661	380	6,739	1,407	611
	1,266	27,769	5,965	1,928	1,152	22,497	4,908	1,852
Mountain								
Clear Ck.	70	1,032	219	81	63	912	177	81
Gilpin	12	143	40	9	16	123	34	12
Park	20	467	79	24	26	315	48	23
	102	1,642	338	114	105	1,350	259	116
Dry Plns.								
Douglas	50	587	106	18	29	335	D[a]	D[a]
Elbert	26	369	D[a]	D[a]	24	182	D	D
Sedgwick	33	510	92	38	28	402	65	35
Wash.	49	550	70	29	23	305	66	53
Cheyenne	111	2,559	380	171	122	2,291	475	200
Deuel	27	552	66	23	19	427	67	30
Keith	84	1,585	250	99	88	1,232	215	106
Kimball	79	1,518	322	102	47	1,243	302	106
Laramie	407	10,557	3,022	1,056	377	8,050	2,437	1,037
	866	18,827	4,308	1,536	757	14,467	3,627	1,567
South Platte River Basin	8,946	337,699	95,439	27,264	7,804	231,935	85,569	22,313
Colorado	12,988	438,223	120,431	34,709	11,544	323,423	90,168	31,146

[a] Data withheld because of disclosure rule.

Source: U.S. Bureau of Census, Census of Business, Selected Services, 1948, 1954, 1958, 1963.

TABLE c-40 Continued

Area	1954				1948		
	No.of Estbl.	Receipts (000of $)	Payroll (000of $)	No.of Emply.	No.of Estbl.	Receipts (000of $)	No.of Emply.
Metro.							
Adams	189	5,391	1,155	303	125	1,331	163
Arapahoe	360	6,677	1,369	484	199	2,542	272
Boulder	352	5,089	1,182	606	272	3,763	595
Denver	3,183	110,387	32,354	12,074	2,560	61,018	10,719
Jefferson	308	7,469	1,563	616	197	2,188	183
	4,392	135,013	37,623	14,083	3,353	70,842	11,932
Irr. Plns.							
Larimer	363	5,908	1,287	465	379	4,459	519
Logan	121	2,923	616	230	80	1,153	138
Morgan	140	2,350	425	209	97	990	115
Weld	320	4,812	989	477	261	3,268	495
	944	15,993	3,317	1,381	817	9,870	1,267
Mountain							
Clear Ck.	50	466	64	11	51	407	38
Gilpin	5	97	20	10	5	–[a]	–[a]
Park	19	229	34	16	18	117	10
	74	792	118	37	74	524	48
Dry Plns.							
Douglas	19	110	6	4	16	102	8
Elbert	16	79	D[b]	D[b]	16	94	8
Sedgwick	22	282	43	29	29	212	27
Wash.	40	272	29	13	26	171	21
Cheyenne	110	1,506	219	105	74	804	104
Deuel	27	636	134	33	27	273	28
Keith	66	906	179	112	70	677	76
Kimball	39	577	91	46	27	271	26
Laramie	302	7,126	2,089	960	188	3,194	574
	641	11,494	2,790	1,302	473	5,798	872
South Platte River Basin	6,051	163,292	43,848	16,803	4,717	87,034	14,119
Colorado	8,977	226,268	60,472	23,189	7,311	123,257	19,542

[a] Data not available

[b] Data withheld because of disclosure rule.

Source: U.S. Bureau of Census, Census of Business, Selected Services, 1948, 1954, 1958, 1963.

TABLE c-41

THE PERCENTAGE CHANGE IN NUMBER OF ESTABLISHMENTS, RECEIPTS, PAYROLL, & THE NUMBER OF EMPLOYEES IN SELECTED SERVICES IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COLORADO, 1948-54, 1954-58, 1958-63

Area	1948-54			1954-58			
	No.of Estbl.	Receipts	No.of Emply.	No.of Estbl.	Receipts	Payroll	No.of Emply.
Metropolitan	30.987	90.583	18.027	31.830	43.409	104.064	33.338
Irrigated Plns.	15.544	62.036	8.997	22.033	40.667	47.965	34.105
Mountain	-	51.145	-22.917	41.891	70.454	119.491	213.513
Dry Plains	35.517	98.240	50.694	18.096	25.865	30.280	20.724
South Platte River Basin	28.280	87.618	19.009	28.970	42.036	95.149	32.791
Colorado	22.787	83.574	18.662	28.595	42.938	49.107	34.313

TABLE c-41 Continued

Area	1958-63			
	No.of Estbl.	Receipts	Payroll	No.of Emply.
Metropolitan	15.924	49.498	10.489	26.136
Irrigated Plns.	9.895	23.434	21.536	4.103
Mountain	-2.858	21.629	30.501	-1.725
Dry Plains	14.398	30.137	15.853	-3.127
South Platte River Basin	14.633	45.600	11.534	22.188
Colorado	12.508	35.495	33.562	11.439

Source: Table c-40

4. Income

Personal income totals for the counties of the SPRB are shown in Table c-42. These data are derived from figures published annually in Sales Management Magazine's consumer buying power issue (generally May or June). "Net effective buying income" as developed by Sales Management Magazine is disposable income and is geared to the Department of Commerce figures. It includes an estimate of non-money income of farmers and small town residents and imputed rentals of owner-occupied homes. County figures are obtained from state figures via ratios which are built from a wide variety of statistical indices such as income tax returns, agricultural marketings, retail sales, bank deposits, etc. in each county. While these figures are not identical to Department of Commerce figures, they are reasonably consistent over a long period of years and are available on a county basis which the Commerce figures are not. The data as used here have been adjusted by the author to correspond more closely with Department of Commerce personal income figures. It is believed that, if anything, they tend to be somewhat conservative. Tables c-42 to c-50 compare income changes among the counties of the SPRB with the surrounding states and the United States.

Examination of Table c-44 shows personal income in the SPRB growing at a faster rate than for the United States as a whole for the entire 1940 to 1964 period. The average annual rate of growth is slowing, however, and the spread between SPRB and the U.S. has been narrowing, since 1960. The rank of counties by percentage change in personal income is seen in Table c-49. The eight counties in the basin that grew faster than the U. S. average in the 1950-64 period included all five Metropolitan counties, Larimer County of the Irrigated Plains Subregion and Douglas County of the Dry Plains Subregion, both of which adjoin the Metropolitan counties and are, in fact, becoming appendages to the Metropolitan area and are benefiting from the same growth forces. Kimball County was the only predominantly rural county which was above the U. S. average for the fourteen-year period and growth in income there is closely related to petroleum production. Income more than doubled in each of these eight counties during the 1950-64 period (as it also did in the United States). In two of these eight, income more than tripled; in one, income increased six-fold; one, seven-fold; and in the county experiencing the largest increase, eight-fold. Figure c-31 also shows the five counties whose growth was above the SPRB average. These were the suburban Metropolitan counties and petroleum-rich Kimball County. The SPRB has shown a faster rate of growth in income than the State of Colorado, the eight state mountain region, and double the rate of growth in income of the adjoining states of Nebraska and Wyoming.

In general, the Metropolitan counties are rising in rank among the counties of the SPRB displacing the irrigated agriculture counties which are falling in rank. The Mountain counties remain at the bottom, as they must because of their small size and population. The change in ranking of the dry farming counties is more mixed with about an equal number falling, rising, and remaining the same. The divergence in total income between the biggest and smallest counties of the SPRB is increasing as might be expected, but there is some evidence of a slowing of the pace since 1960. The SPRB share of total United States' personal income has grown from 0.51 percent in 1940 to 0.59 in 1950, 0.73 in 1960, 0.78 in 1962, and 0.80 percent in 1964. This reflects the faster rate of growth in the SPRB (13.7 percent yearly average 1950-64) than in the United States (8.3 percent annual average 1950-64).

The per capita personal income of the SPRB, its constituent counties and comparison areas are seen in Table c-43 with ranking by counties in Table c-48 and rank by percentage change in Table c-50 and a comparison with the United States in Table c-46. The same data is represented graphically in figures c-32 to c-34. Per capita data are often thought to be a better measure of welfare or progress than total income because they reflect population changes as well as total income changes.

Per capita income in the SPRB has been above the U.S. average per capita income for the entire twenty-four year period studied. The differential has increased from a bare one percent in 1940 to ten percent in 1960 where it has remained for the succeeding four years. Eight counties in the basin had per capita incomes higher than the United States average of $2,514 in 1964. Denver, with a per capita income of $3,197, topped the list as it has since 1960 when it surpassed Laramie County, the earlier leader. Only Adams County of the Metropolitan counties is not in this top eight. Laramie (City of Cheyenne) and Kimball Counties of the Dry Plains Subregion are among this above average group of counties as are Gilpin and Clear Creek of the Mountain Subregion. Weld County, the most productive agricultural county in the basin, does not fare so well in terms of per capita income being seventeenth of the twenty-one counties in the basin, and, surprisingly per capita incomes in the other irrigated farming counties do not generally out-pace the dry farming counties, although Washington, Douglas, and Elbert Counties make

TABLE c-42

PERSONAL INCOME IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND RELATED REGIONS, 1940-1964 (Dollars)

Area	1940	1950	1960	1962	1964
Metropolitan					
Adams	7,557	39,216	267,670	263,796	279,512
Arapahoe	11,749	42,748	262,362	342,475	394,099
Boulder	22,216	67,584	161,255	210,973	243,326
Denver	244,776	755,033	1,447,469	1,502,090	1,688,246
Jefferson	9,328	63,041	275,448	475,349	528,504
	295,627	967,623	2,414,205	2,794,683	3,164,198
Irrigated Plains					
Larimer	19,127	56,731	113,948	119,457	145,526
Logan	9,272	24,379	40,621	44,433	46,694
Morgan	7,850	25,005	41,201	40,385	42,629
Weld	25,761	88,336	136,767	136,594	155,025
	62,010	194,451	332,537	340,868	389,824
Mountain					
Clear Creek	2,188	5,342	5,612	6,572	7,222
Gilpin	676	1,049	1,440	1,501	1,852
Park	1,632	2,821	4,082	3,917	4,170
	4,496	9,213	11,134	11,990	13,244
Dry Plains					
Douglas	2,153	4,837	8,135	9,121	10,565
Elbert	1,786	5,322	5,774	5,827	6,038
Sedgwick	2,520	7,162	8,898	8,003	8,250
Washington	2,076	7,039	12,266	12,038	12,905
Cheyenne	5,820	18,213	40,700	35,613	38,935
Deuel	1,944	4,697	7,140	6,547	7,041
Keith	4,863	9,602	20,507	16,949	18,386
Kimball	1,788	6,796	21,757	22,468	26,232
Laramie	23,642	97,831	152,695	164,372	188,255
	46,591	161,501	277,871	280,937	316,607
South Platte River Basin	408,724	1,332,788	3,035,748	3,428,478	3,883,872
Colorado	609,317	1,925,136	4,021,774	4,498,422	5,052,809
Nebraska	656,672	1,891,384	3,041,603	3,257,399	3,546,625
Wyoming	168,943	477,105	768,904	793,285	877,487
United States	79,375[a]	223,665[a]	411,816[a]	436,990[a]	484,715[a]
Mtn. Region	2,263[a]	7,170[a]	14,570[a]	15,973[a]	18,182[a]
Plains Region	7,332[a]	19,503[a]	32,629[a]	34,833[a]	38,364[a]

[a] Nearest thousands

Source: Adapted from Sales Management Magazine, survey of current buying power figures, various years.

TABLE c-43

PER CAPITA INCOME IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND RELATED REGIONS, 1940-1964 (Dollars)

Area	1940	1950	1960	1962	1964
Metropolitan					
Adams	323	956	2,119	1,915	2,023
Arapahoe	365	814	2,225	2,684	2,840
Boulder	594	1,382	2,116	2,554	2,683
Denver	768	1,800	2,897	2,960	3,197
Jefferson	306	1,118	2,116	2,808	2,998
	664	1,580	2,598	2,737	2,911
Irrigated Plains					
Larimer	540	1,284	2,107	2,137	2,288
Logan	506	1,401	1,981	2,096	2,210
Morgan	456	1,366	1,916	1,827	1,964
Weld	397	1,305	1,884	1,848	1,985
	460	1,329	1,989	1,910	2,096
Mountain					
Clear Creek	576	1,571	2,004	2,435	2,580
Gilpin	423	1,312	1,440	2,501	2,645
Park	494	1,485	2,268	2,176	2,316
	518	1,533	2,101	2,234	2,387
Dry Plains					
Douglas	694	1,382	1,661	1,754	1,887
Elbert	324	1,157	1,604	1,619	1,726
Sedgwick	485	1,404	2,118	1,952	2,062
Washington	250	926	1,858	1,852	1,995
Cheyenne	613	1,505	2,713	2,283	2,418
Deuel	540	1,424	2,303	2,183	2,347
Keith	586	1,280	2,563	2,093	2,215
Kimball	458	1,544	2,653	2,524	2,704
Laramie	785	2,017	2,496	2,601	2,793
	571	1,692	2,450	2,374	2,544
South Platte River Basin	610	1,550	2,498	2,591	2,768
Colorado	545	1,438	2,256	2,383	2,545
Nebraska	500	1,418	2,147	2,259	2,423
Wyoming	685	1,615	2,309	2,341	2,793
United States	604	1,468	2,270	2,333	2,514
Mtn. Region	548	1,396	2,091	2,168	2,331
Plains Region	544	1,373	2,103	2,211	2,400

Source: Same as Table c-42

TABLE c-44

THE PERCENTAGE CHANGE IN PERSONAL INCOME IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND RELATED REGIONS, 1940-1964 (Dollars)

Area	1940-50	1950-60	1960-62	1962-64	1950-64
Metropolitan					
Adams	418.9	582.6	- 1.4	6.0	612.7
Arapahoe	263.8	513.7	30.5	15.1	821.9
Boulder	204.2	138.6	30.8	15.3	260.0
Denver	208.4	91.7	3.8	12.4	123.6
Jefferson	575.8	336.9	72.6	11.2	738.3
	227.3	149.5	15.8	13.2	227.0
Irrigated Plains					
Larimer	196.6	100.8	4.8	21.8	156.5
Logan	162.9	66.6	9.4	5.0	91.3
Morgan	218.5	64.8	- 2.0	5.6	70.5
Weld	242.9	54.8	- 0.1	13.5	75.5
	213.6	71.0	2.5	14.4	100.5
Mountain					
Clear Creek	144.1	5.1	17.1	9.9	35.2
Gilpin	55.2	37.3	4.2	23.4	76.5
Park	72.8	44.7	- 4.0	6.4	47.8
	104.9	20.8	7.7	10.4	43.8
Dry Plains					
Douglas	124.7	68.2	12.1	15.8	118.4
Elbert	198.0	8.5	0.9	3.6	13.4
Sedgwick	184.2	24.2	-10.1	3.1	15.2
Washington	239.1	74.2	- 1.9	7.2	83.3
Cheyenne	212.9	123.5	-12.5	9.3	113.8
Deuel	141.6	52.0	- 8.3	7.5	49.9
Keith	97.4	113.6	-17.4	8.5	91.5
Kimball	280.1	120.1	3.3	16.8	286.0
Laramie	313.8	56.1	7.6	14.5	92.4
	246.6	72.0	1.1	12.7	96.0
South Platte River Basin	226.1	127.8	12.9	13.3	191.4
Colorado	215.9	108.9	11.8	12.3	162.5
Nebraska	188.0	79.8	7.1	8.9	87.5
Wyoming	182.4	61.2	3.2	10.6	83.9
United States	181.8	84.1	6.1	10.9	116.7
Mtn. Region	216.8	103.2	9.6	13.8	153.6
Plains Region	265.8	67.3	6.8	10.1	96.7

Source: Table c-42

TABLE c-45

THE PERCENTAGE CHANGE IN PER CAPITA INCOME IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND RELATED REGIONS, 1940-1964 (Dollars)

Area	1940-50	1950-60	1960-62	1962-64	1950-64
Metropolitan					
Adams	196.0	121.6	- 9.6	5.6	111.6
Arapahoe	123.0	173.3	20.6	5.8	248.9
Boulder	132.6	53.1	20.7	5.0	94.1
Denver	134.4	60.9	2.2	8.0	77.6
Jefferson	265.4	89.3	32.7	6.8	168.2
	138.0	64.4	5.4	6.4	84.2
Irrigated Plains					
Larimer	137.8	64.1	1.4	7.1	78.2
Logan	176.9	41.4	5.8	5.4	57.7
Morgan	199.6	40.3	- 4.6	7.5	43.8
Weld	228.7	44.4	- 1.9	7.4	52.1
	188.9	49.7	- 4.0	9.7	57.7
Mountain					
Clear Creek	172.7	27.6	21.5	6.0	64.2
Gilpin	210.2	9.8	73.7	5.8	101.6
Park	200.6	52.7	- 4.1	6.4	56.0
	195.9	37.0	6.3	6.8	51.1
Dry Plains					
Douglas	99.1	20.2	5.6	7.6	36.5
Elbert	257.1	38.6	0.9	6.6	49.2
Sedgwick	189.5	50.8	- 7.8	5.6	46.9
Washington	270.4	100.6	- 0.3	5.6	111.1
Cheyenne	145.5	80.3	- 5.8	5.9	60.7
Deuel	163.7	61.7	- 5.2	7.5	64.8
Keith	118.4	100.2	-19.3	5.8	73.0
Kimball	237.1	71.8	- 4.9	7.1	75.1
Laramie	156.9	23.7	4.2	7.4	38.5
	196.3	44.8	- 3.1	7.2	50.4
South Platte River Basin	154.1	61.2	3.7	6.8	78.6
Colorado	163.8	56.9	5.6	6.8	77.0
Nebraska	183.6	51.4	5.2	7.2	70.9
Wyoming	135.8	43.0	1.4	19.3	72.9
United States	143.0	54.6	2.8	7.8	71.2
Mtn. Region	154.7	49.8	3.7	7.5	67.0
Plains Region	152.3	53.2	5.1	8.5	74.8

Source: Table c-43

TABLE c-46

PER CAPITA INCOME OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS AND COUNTIES AS A SHARE OF UNITED STATES PER CAPITA INCOME, 1940-1964

Area	1940	1950	1960	1962	1964
Metropolitan					
Adams	53.5	65.1	93.3	82.2	80.5
Arapahoe	60.4	55.4	98.0	115.0	113.0
Boulder	98.3	94.1	93.2	109.5	106.7
Denver	127.2	122.6	127.6	126.9	127.2
Jefferson	50.7	76.2	93.2	120.4	119.2
	109.9	107.6	114.4	117.3	115.8
Irrigated Plains					
Larimer	89.4	87.5	92.8	91.6	91.0
Logan	83.8	95.4	87.3	89.8	87.9
Morgan	75.5	93.0	84.4	78.3	78.1
Weld	65.7	88.9	83.0	79.2	79.0
	76.2	90.5	87.6	81.9	83.4
Mountain					
Clear Creek	95.4	107.1	88.3	104.4	102.6
Gilpin	70.0	89.4	63.4	107.2	105.2
Park	81.8	101.2	99.9	93.3	91.9
		104.4	92.6	95.8	94.9
Dry Plains					
Douglas	85.8	94.1	73.2	75.2	75.0
Elbert	53.6	78.8	70.7	69.4	68.6
Sedgwick	80.3	95.6	93.3	83.7	82.0
Washington	41.4	63.1	81.8	79.4	77.8
Cheyenne	101.5	102.5	119.5	97.8	96.2
Deuel	89.4	97.0	101.4	93.6	93.4
Keith	97.1	87.2	112.9	89.7	88.1
Kimball	75.8	105.2	116.9	108.2	107.6
Laramie	130.0	137.4	110.0	111.5	111.1
	94.5	115.2	107.9	101.8	101.2
South Platte River Basin	101.0	105.6	110.0	111.0	110.1
Colorado	90.2	98.0	99.4	102.1	101.2
Nebraska	82.8	96.6	94.6	96.8	96.4
Wyoming	113.4	110.0	101.7	100.3	111.1
United States	100.0	100.0	100.0	100.0	100.0
Mtn. Region	90.7	95.1	92.1	92.9	92.7
Plains Region	90.1	93.5	92.6	94.8	95.5

Source: Table c-43

TABLE c-47
RANK OF COUNTIES IN THE SOUTH PLATTE RIVER BASIN BY PERSONAL INCOME, 1940-1964 (Dollars)

1940		1950		1960	
U.S.	79,374,745	U.S.	223,665,133	U.S.	411,815,743
Plns. Reg.	7,332,124	Plns. Reg.	19,502,508	Plns. Reg.	32,629,065
Mtn. Reg.	2,263,229	Mtn. Reg.	7,169,857	Mtn. Reg.	14,570,100
Nebraska	656,672	Colorado	1,925,136	Colorado	4,021,774
Colorado	609,317	Nebraska	1,891,384	Nebraska	3,041,603
SPRB	408,724	SPRB	1,332,788	SPRB	3,035,748
Metro S-R	295,627	Metro S-R	967,623	Metro S-R	2,414,205
Denver	244,776	Denver	755,033	Denver	1,447,469
Wyoming	168,943	Wyoming	477,105	Wyoming	768,904
I P S-R	62,010	I P S-R	194,451	I P S-R	332,537
D P S-R	46,591	D P S-R	161,501	D P S-R	277,871
Weld	25,761	Laramie	97,831	Jefferson	275,448
Laramie	23,642	Weld	88,336	Adams	267,670
Boulder	22,216	Boulder	67,584	Arapahoe	262,362
Larimer	19,127	Jefferson	63,041	Boulder	161,255
Arapahoe	11,749	Larimer	56,731	Laramie	152,695
Jefferson	9,328	Arapahoe	42,748	Weld	135,767
Logan	9,272	Adams	39,216	Larimer	113,948
Morgan	7,850	Morgan	25,005	Morgan	41,201
Adams	7,557	Logan	24,379	Cheyenne	40,700
Cheyenne	5,820	Cheyenne	18,213	Logan	40,621
Keith	4,863	Keith	9,602	Kimball	21,757
Mtn. S-R	4,496	Mtn. S-R	9,213	Keith	20,507
Sedgwick	2,520	Sedgwick	7,162	Washington	12,266
Clear Creek	2,188	Washington	7,039	Mtn. S-R	11,134
Douglas	2,153	Kimball	6,796	Sedgwick	8,898
Washington	2,076	Clear Creek	5,342	Douglas	8,135
Deuel	1,944	Elbert	5,322	Deuel	7,140
Kimball	1,788	Douglas	4,837	Elbert	5,774
Elbert	1,786	Deuel	4,697	Clear Creek	5,612
Park	1,632	Park	2,821	Park	4,082
Gilpin	676	Gilpin	1,049	Gilpin	1,440

Source: Table c-42

TABLE c-47--Continued

1962		1964	
U.S.	436,989,947	U.S.	484,715,121
Plns. Reg.	34,832,825	Plns. Reg.	38,364,021
Mtn. Reg.	15,972,797	Mtn. Reg.	18,181,914
Colorado	4,498,422	Colorado	5,052,809
SPRB	3,428,478	SPRB	3,883,872
Nebraska	3,257,399	Nebraska	3,546,625
Metro S-R	2,794,683	Metro S-R	3,164,198
Denver	1,502,090	Denver	1,688,246
Wyoming	793,285	Wyoming	877,487
Jefferson	475,349	Jefferson	528,504
Arapahoe	342,475	Arapahoe	394,099
I P S-R	340,868	I P S-R	389,824
D P S-R	280,937	D P S-R	316,607
Adams	263,796	Adams	279,512
Boulder	210,973	Boulder	243,326
Laramie	164,372	Laramie	188,255
Weld	136,594	Weld	155,025
Larimer	119,457	Larimer	145,526
Logan	44,433	Logan	46,644
Morgan	40,385	Morgan	42,629
Cheyenne	35,613	Cheyenne	38,935
Kimball	22,468	Kimball	26,232
Keith	16,949	Keith	18,386
Washington	12,038	Mtn. S-R	13,244
Mtn. S-R	11,990	Washington	12,905
Douglas	9,121	Douglas	10,565
Sedgwick	8,003	Sedgwick	8,250
Clear Creek	6,572	Clear Creek	7,222
Deuel	6,547	Deuel	7,041
Elbert	5,827	Elbert	6,038
Park	3,917	Park	4,170
Gilpin	1,501	Gilpin	1,852

Source: Table c-42

TABLE c-48

RANK OF COUNTIES IN THE SOUTH PLATTE RIVER BASIN BY PER CAPITA INCOME, 1940-1964 (Dollars)

1940		1950		1960	
Laramie	785	Laramie	2,017	Denver	2,897
Denver	768	Denver	1,800	Cheyenne	2,713
Douglas	694	D P S-R	1,692	Kimball	2,653
Wyoming	685	Wyoming	1,615	Metro S-R	2,598
Metro S-R	664	Metro S-R	1,580	Keith	2,563
Cheyenne	613	Clear Creek	1,571	SPRB	2,498
SPRB	610	SPRB	1,550	Laramie	2,496
U.S.	604	Kimball	1,544	D P S-R	2,450
Boulder	594	Mtn. S-R	1,533	Wyoming	2,309
Keith	586	Cheyenne	1,505	Deuel	2,303
Clear Creek	576	Park	1,485	U.S.	2,270
D P S-R	571	U.S.	1,468	Park	2,268
Mtn. Reg.	548	Colorado	1,438	Colorado	2,256
Colorado	545	Deuel	1,424	Arapahoe	2,225
Plns. Reg.	544	Nebraska	1,418	Nebraska	2,147
Larimer	540	Sedgwick	1,404	Adams	2,119
Deuel	540	Logan	1,401	Sedgwick	2,118
Mtn. S-R	518	Mtn. Reg.	1,396	Boulder	2,116
Logan	506	Boulder	1,382	Jefferson	2,116
Nebraska	500	Douglas	1,382	Larimer	2,107
Park	494	Plns. Reg.	1,373	Plns. Reg.	2,103
Sedgwick	485	Morgan	1,366	Mtn. S-R	2,101
I P S-R	460	I P S-R	1,329	Mtn. Reg.	2,091
Kimball	458	Gilpin	1,312	Clear Creek	2,004
Morgan	456	Weld	1,305	I P S-R	1,989
Gilpin	423	Larimer	1,284	Logan	1,981
Weld	397	Keith	1,280	Morgan	1,916
Arapahoe	365	Elbert	1,157	Weld	1,884
Elbert	324	Jefferson	1,118	Washington	1,858
Adams	323	Adams	956	Douglas	1,661
Jefferson	306	Washington	926	Elbert	1,604
Washington	250	Arapahoe	814	Gilpin	1,440

Source: Table c-43

TABLE c-48--Continued

1962		1964	
Denver	2,960	Denver	3,197
Jefferson	2,808	Jefferson	2,998
Metro S-R	2,737	Metro S-R	2,911
Arapahoe	2,684	Arapahoe	2,840
Laramie	2,601	Laramie	2,793
SPRB	2,591	Wyoming	2,793
Boulder	2,554	SPRB	2,768
Kimball	2,524	Kimball	2,704
Gilpin	2,501	Boulder	2,683
Clear Creek	2,435	Gilpin	2,645
Colorado	2,383	Clear Creek	2,580
D P S-R	2,374	Colorado	2,545
Wyoming	2,341	D P S-R	2,544
U.S.	2,333	U.S.	2,514
Cheyenne	2,283	Nebraska	2,423
Nebraska	2,259	Cheyenne	2,418
Mtn. S-R	2,234	Plns. Reg.	2,400
Plns. Reg.	2,211	Mtn. S-R	2,387
Deuel	2,183	Deuel	2,347
Park	2,176	Mtn. Reg.	2,331
Mtn. Reg.	2,168	Park	2,316
Larimer	2,137	Larimer	2,288
Logan	2,096	Keith	2,215
Keith	2,093	Logan	2,210
Sedgwick	1,952	I P S-R	2,096
Adams	1,915	Sedgwick	2,062
I P S-R	1,910	Adams	2,023
Washington	1,852	Weld	1,985
Weld	1,848	Morgan	1,964
Morgan	1,827	Washington	1,955
Douglas	1,754	Douglas	1,887
Elbert	1,619	Elbert	1,726

Source: Table c-43

TABLE c-49

RANK OF COUNTIES IN THE SOUTH PLATTE RIVER BASIN BY PERCENTAGE CHANGE IN PERSONAL INCOME, 1940-1964

1940-50		1950-60		1960-62	
Jefferson	575.8	Adams	582.6	Jefferson	72.6
Adams	418.9	Arapahoe	513.7	Boulder	30.8
Laramie	313.8	Jefferson	336.9	Arapahoe	30.5
Kimball	280.1	Metro S-R	149.5	Clear Creek	17.1
Plns. Reg.	265.8	Boulder	138.6	Metro S-R	15.8
Arapahoe	263.8	SPRB	127.8	SPRB	12.9
D P S-R	246.6	Cheyenne	123.5	Douglas	12.1
Weld	242.9	Kimball	120.1	Colorado	11.8
Washington	239.1	Keith	113.6	Mtn. Reg.	9.6
Metro S-R	227.3	Colorado	108.9	Logan	9.4
SPRB	226.1	Mtn. Reg.	103.2	Mtn. S-R	7.7
Morgan	218.5	Larimer	100.8	Laramie	7.6
Mtn. Reg.	216.8	Denver	91.7	Nebraska	7.1
Colorado	215.9	U.S.	84.1	Plns. S-R	6.8
I P S-R	213.6	Nebraska	79.8	U.S.	6.1
Cheyenne	212.9	Washington	74.2	Larimer	4.8
Denver	208.4	D P S-R	72.0	Gilpin	4.2
Boulder	204.2	I P S-R	71.0	Denver	3.8
Elbert	198.0	Douglas	68.2	Kimball	3.3
Larimer	196.6	Plns. Reg.	67.3	Wyoming	3.2
Nebraska	188.0	Logan	66.6	I P S-R	2.5
Sedgwick	184.2	Morgan	64.8	D P S-R	1.1
Wyoming	182.4	Wyoming	61.2	Elbert	0.9
U.S.	181.8	Laramie	56.1	Weld	- 0.1
Logan	162.9	Weld	54.8	Adams	- 1.4
Clear Creek	144.1	Deuel	52.0	Washington	- 1.9
Deuel	141.6	Park	44.7	Morgan	- 2.0
Douglas	124.7	Gilpin	37.3	Park	- 4.0
Mtn. S-R	104.9	Sedgwick	24.2	Deuel	- 8.3
Keith	97.4	Mtn. S-R	20.8	Sedgwick	-10.1
Park	72.8	Elbert	8.5	Cheyenne	-12.5
Gilpin	55.2	Clear Creek	5.1	Keith	-17.4

Source: Table c-42

TABLE c-49--Continued

1962-64		1950-64	
Gilpin	23.4	Arapahoe	821.9
Larimer	21.8	Jefferson	738.3
Kimball	16.8	Adams	612.7
Douglas	15.8	Kimball	286.0
Boulder	15.3	Boulder	260.0
Arapahoe	15.1	Metro S-R	227.0
Laramie	14.5	SPRB	191.4
I P S-R	14.4	Colorado	162.5
Mtn. Reg.	13.8	Larimer	156.5
Weld	13.5	Mtn. Reg.	153.6
SPRB	13.3	Denver	123.6
Metro S-R	13.2	Douglas	118.4
D P S-R	12.7	U.S.	116.7
Denver	12.4	Cheyenne	113.8
Colorado	12.3	I P S-R	100.5
Jefferson	11.2	Plns. Reg.	96.7
U.S.	10.9	D P S-R	96.0
Wyoming	10.6	Laramie	92.4
Mtn. S-R	10.4	Keith	91.5
Plns. Reg.	10.1	Logan	91.3
Clear Creek	9.9	Nebraska	87.5
Cheyenne	9.3	Wyoming	83.9
Nebraska	8.9	Washington	83.3
Keith	8.5	Gilpin	76.5
Deuel	7.5	Weld	75.5
Washington	7.2	Morgan	70.5
Park	6.4	Deuel	49.9
Adams	6.0	Park	47.8
Morgan	5.6	Mtn. S-R	43.8
Logan	5.0	Clear Creek	35.2
Elbert	3.6	Sedgwick	15.2
Sedgwick	3.1	Elbert	13.4

Source: Table c-42

TABLE c-50

RANK OF COUNTIES IN THE SOUTH PLATTE RIVER BASIN BY PERCENTAGE CHANGE IN PER CAPITA INCOME, 1940-1964

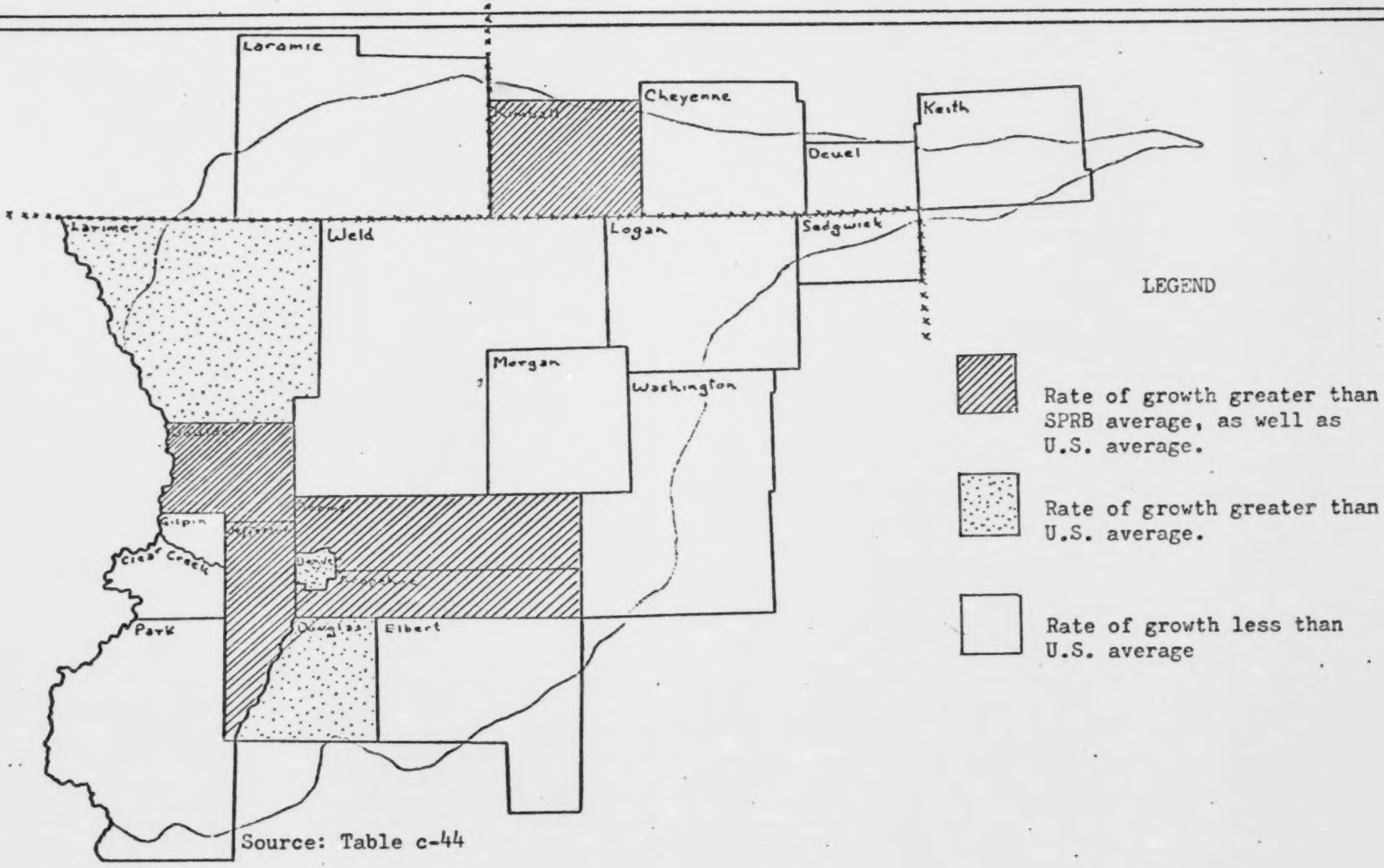
1940-50		1950-60		1960-62	
Washington	270.4	Arapahoe	173.3	Gilpin	73.7
Jefferson	265.4	Adams	121.6	Jefferson	32.7
Elbert	257.1	Washington	100.6	Clear Creek	21.5
Kimball	237.1	Keith	100.2	Boulder	20.7
Weld	228.7	Jefferson	89.3	Arapahoe	20.6
Gilpin	210.2	Cheyenne	80.3	Mtn. S-R	6.3
Park	200.6	Kimball	71.8	Logan	5.8
Morgan	199.6	Metro S-R	64.4	Douglas	5.6
D P S-R	196.3	Larimer	64.1	Colorado	5.6
Adams	196.0	Deuel	61.7	Metro S-R	5.4
Mtn. S-R	195.9	SPRB	61.2	Nebraska	5.2
Sedgwick	189.5	Denver	60.9	Plns. Reg.	5.1
I P S-R	188.9	Colorado	56.9	Laramie	4.2
Nebraska	183.6	U.S.	54.6	SPRB	3.7
Logan	176.9	Plns. Reg.	53.2	Mtn. Reg.	3.7
Clear Creek	172.7	Boulder	53.1	U.S.	2.8
Colorado	163.8	Park	52.7	Denver	2.2
Deuel	163.7	Nebraska	51.4	Larimer	1.4
Laramie	156.9	Sedgwick	50.8	Wyoming	1.4
Mtn. Reg.	154.7	Mtn. Reg.	49.8	Elbert	0.9
SPRB	154.1	I P S-R	49.7	Washington	- 0.3
Plns. Reg.	152.3	D P S-R	44.8	Weld	- 1.9
Cheyenne	145.5	Weld	44.4	D P S-R	- 3.1
U.S.	143.0	Wyoming	43.0	I P S-R	- 4.0
Metro S-R	138.0	Logan	41.4	Park	- 4.1
Larimer	137.8	Morgan	40.3	Morgan	- 4.6
Wyoming	135.8	Elbert	38.6	Kimball	- 4.9
Denver	134.4	Mtn. S-R	37.0	Deuel	- 5.2
Boulder	132.6	Clear Creek	27.6	Cheyenne	- 5.8
Arapahoe	123.0	Laramie	23.7	Sedgwick	- 7.8
Keith	118.4	Douglas	20.2	Adams	- 9.6
Douglas	99.1	Gilpin	9.8	Keith	-19.3

Source: Table c-43

TABLE c-50--Continued

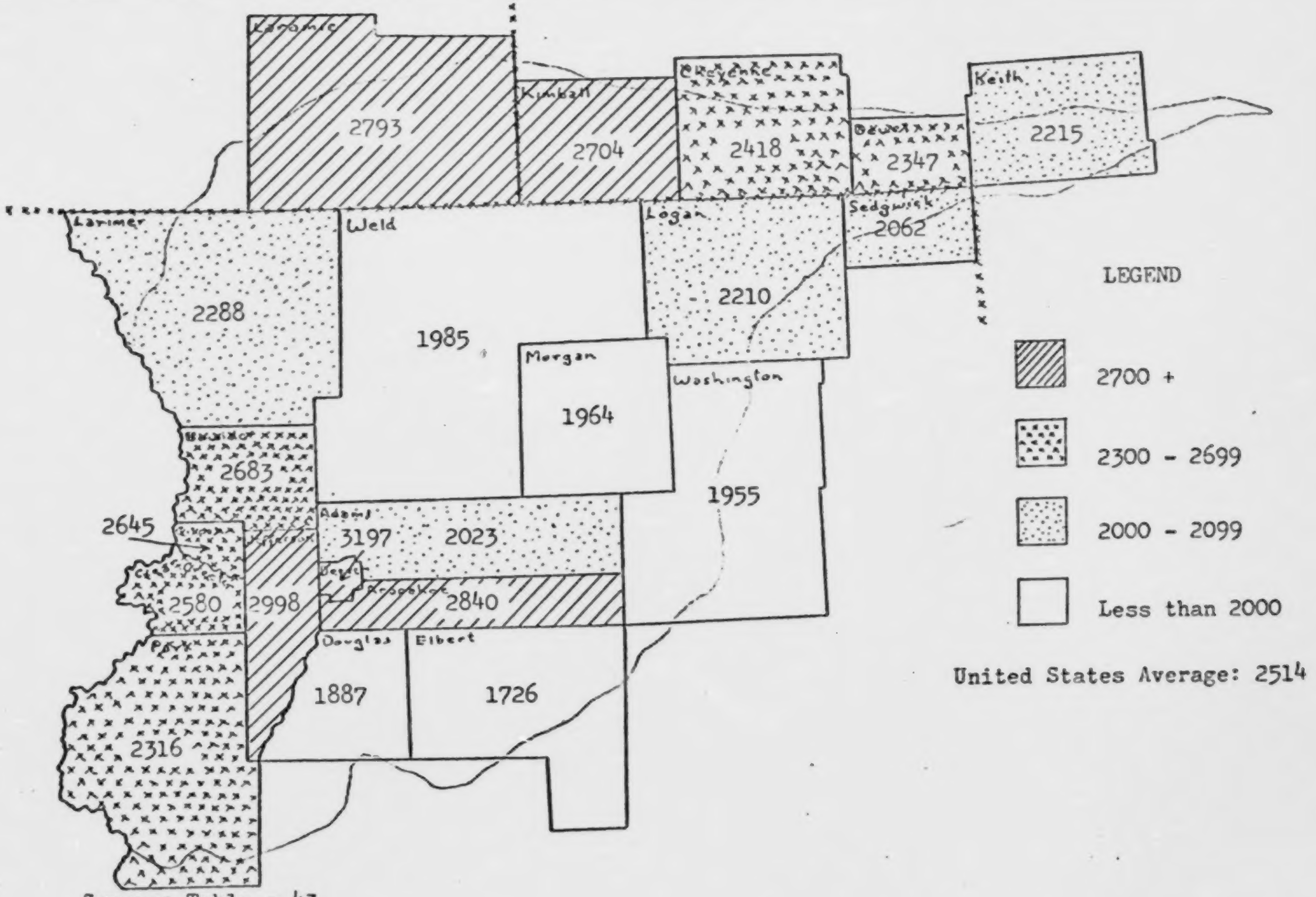
1962-64		1950-64	
Wyoming	19.3	Arapahoe	248.9
I P S-R	9.7	Jefferson	168.2
Plns. Reg.	8.5	Adams	111.6
Denver	8.0	Washington	111.1
U.S.	7.8	Gilpin	101.6
Douglas	7.6	Boulder	94.1
Morgan	7.5	Metro S-R	84.2
Deuel	7.5	SPRB	78.6
Mtn. Reg.	7.5	Larimer	78.2
Weld	7.4	Denver	77.6
Laramie	7.4	Colorado	77.0
D P S-R	7.2	Kimball	75.1
Nebraska	7.2	Plns. Reg.	74.8
Larimer	7.1	Keith	73.0
Kimball	7.1	Wyoming	72.9
Jefferson	6.8	U.S.	71.2
Mtn. S-R	6.8	Nebraska	70.9
SPRB	6.8	Mtn. Reg.	67.0
Colorado	6.8	Deuel	64.8
Elbert	6.6	Clear Creek	64.2
Metro S-R	6.4	Cheyenne	60.7
Park	6.4	Logan	57.7
Clear Creek	6.0	I P S-R	57.7
Cheyenne	5.9	Park	56.0
Arapahoe	5.8	Weld	52.1
Gilpin	5.8	Mtn. S-R	51.1
Keith	5.8	D P S-R	50.4
Adams	5.6	Elbert	49.2
Sedgwick	5.6	Sedgwick	46.9
Washington	5.6	Morgan	43.8
Logan	5.4	Laramie	38.5
Boulder	5.0	Douglas	36.5

Source: Table c-43


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
▨ Rate of growth greater than SPRB average, as well as U.S. average.
░ Rate of growth greater than U.S. average.
☐ Rate of growth less than U.S. average

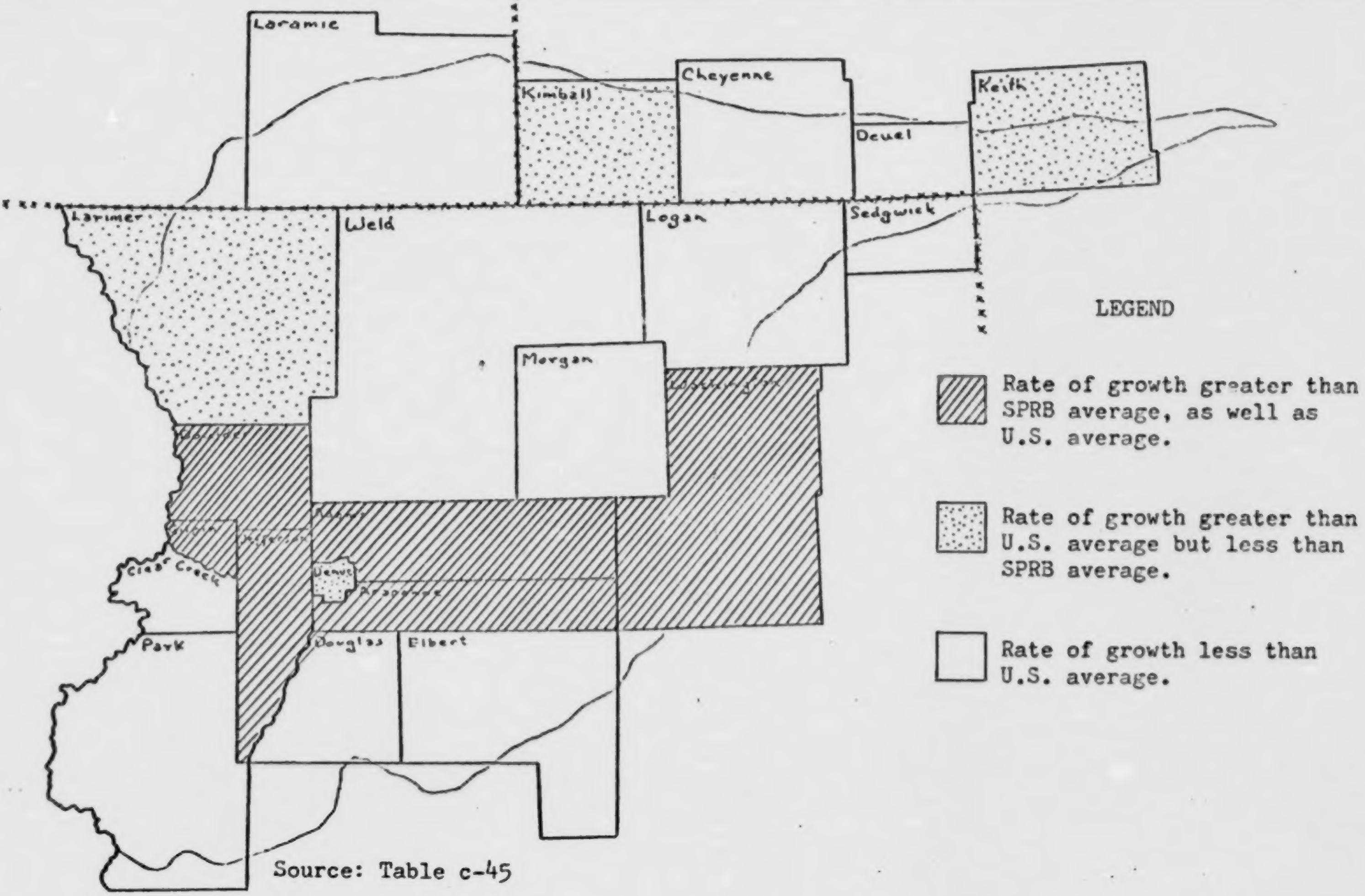
Source: Table c-44

Fig. c-31 --Growth of Total Personal Income in The South Platte River Basin, 1950-1964


Laramie
2793
Kimball
2704
Cheyenne
2418
Deuel
2347
Keith
2215
Larimer
2288
Weld
1985
Logan
2210
Sedgwick
2062
Morgan
1964
Washington
1955
Boulder
2683
2645
Adams
Jefferson
3197
2023
2580
2998
Denver
Arapahoe
2840
Park
2316
Douglas
1887
Elbert
1726
LEGEND
▨ 2700 +
▩ 2300 - 2699
░ 2000 - 2099
☐ Less than 2000
United States Average: 2514

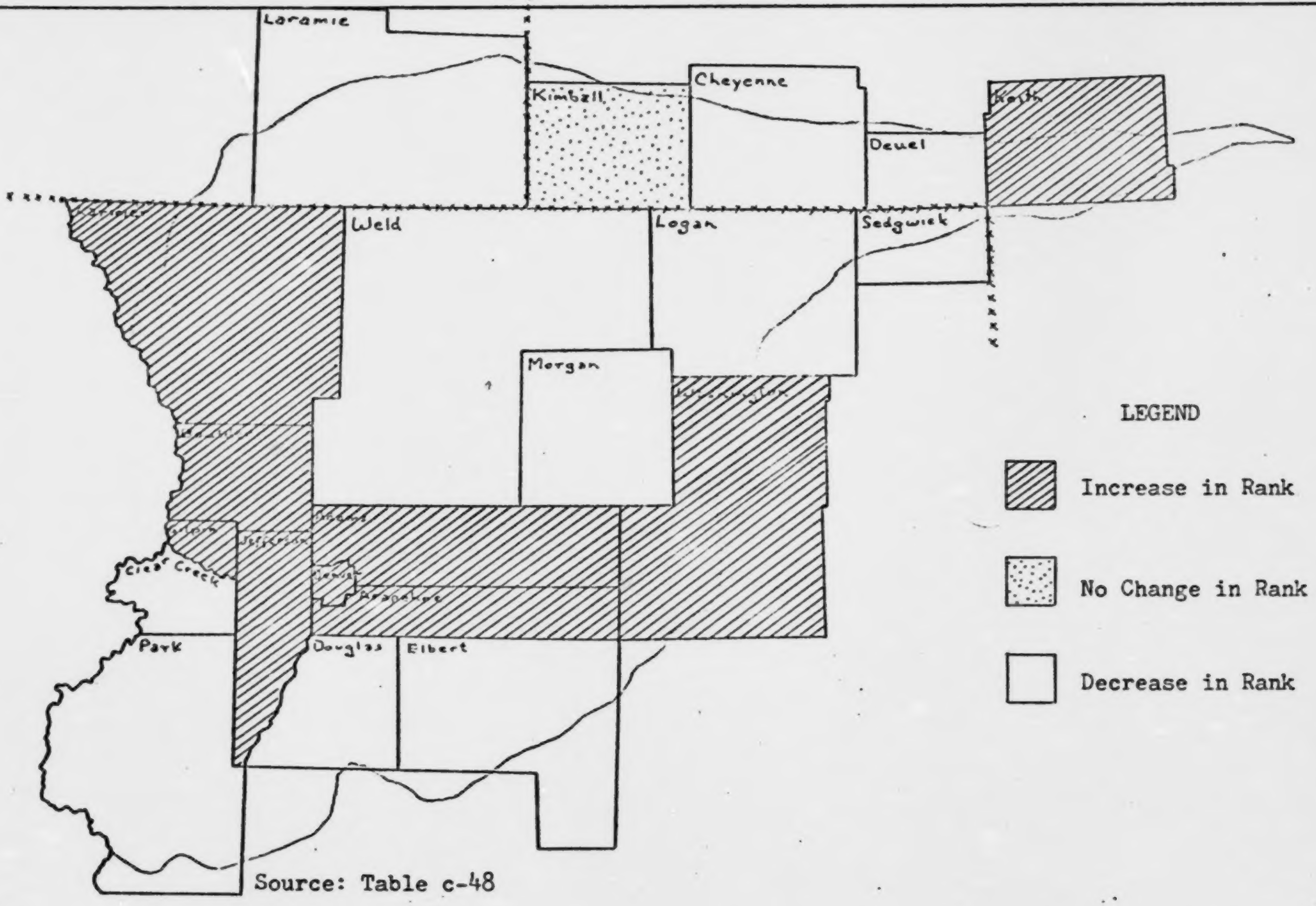
Source: Table c-43

Fig. c-32 --Per Capita Income in The South Platte River Basin Counties, 1964


Loramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Gilpin
Jefferson
Adams
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
▨ Rate of growth greater than SPRB average, as well as U.S. average.
░ Rate of growth greater than U.S. average but less than SPRB average.
☐ Rate of growth less than U.S. average.

Source: Table c-45

Fig. c-33 --Growth of Per Capita Income in South Platte River Basin Counties, 1950-1964


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Gilpin
Clear Creek
Jefferson
Adams
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
Increase in Rank
No Change in Rank
Decrease in Rank

Source: Table c-48

Fig. c-34 --Shift in Ranking of The South Platte River Basin Counties By Per Capita Income, 1950-1964 up the bottom of the list with the lowest having a per capita income of $1,726. The most spectacular change in rank is Jefferson County, which jumped from next to the bottom in 1940 to next to the top in 1964. A comparison of change in ranking of all counties in the basin indicates that the Metropolitan counties are generally the ones that have improved their position. The Irrigated Plains counties have all declined in rank since 1940 as have the Dry Plains counties with the exception of Kimball. Of the Mountain counties, two have remained in the same relative positions, the third, Gilpin, has risen from 15th to 7th in rank.

There has been considerable convergence in per capita income among the counties of the basin since 1940. In 1940 the per capita income in the wealthiest county was 214 percent greater than that in the poorest county. In 1964 this spread was only 85 percent.

Distribution of income in the South Platte River Basin, in this case family money income, is detailed in Tables c-51 to c-54. Percentage distribution of families along the income scale is seen for 1950 on Table c-52 and for 1960 on Table c-54. These data indicate that families in the South Platte River Basin generally enjoy a higher level of income than do families in the United States as a whole. They also indicate that this is a relatively recent phenomenon.

In 1950, the spread of families through the income range was very much alike in the South Platte River Basin and the United States, with the United States having perhaps a bit of an edge over the South Platte River Basin with a slightly greater share of families in the middle ($5,000 - $7,000) and upper middle ($7,000 - $10,000) bracket. The South Platte River Basin had a very slightly higher share of families in the over $10,000 bracket. Within the South Platte River Basin, families in the Metropolitan Subregion enjoyed the highest income. Surprisingly, families in the Dry Plains Subregion ranked next to the Metropolitan Subregion and even had a greater share of families in the highest bracket (over $10,000). Families in the Irrigated Plains Subregion were discovered to be the poorest in the basin with a greater share having incomes below $2,000 and below $3,000 than anywhere else in the basin, and relatively small shares in the middle ($3,000 - $7,000) bracket and above. The Mountain Subregion was also poor, but with a bigger proportion of families in the $3,000 - $5,000 and $5,000 - $7,000 brackets than the Irrigated Plains. It, however, made a very poor showing in the $7,000 - $10,000 and over $10,000 groupings. The South Platte River Basin in general was wealthier than the State of Colorado, considerably better off than the State of Nebraska bu not as prosperous as the State of Wyoming which had a smaller share of families with incomes below $5,000 and more with incomes above $5,000.

The picture had changed considerably by 1960. By this date families in the South Platte River Basin were receiving incomes well above the United States average. The share of families with incomes below $2,000 and below $3,000 was significantly less than for the United States. The percentage in the $3,000--$5,000 bracket was about the same, and for each income grouping above that the South Platte River Basin proportion was increasingly greater than that of the United States. The Metropolitan Subregion was still the leader in the South Platte River Basin and by a greater margin than in 1950. The Dry Plains Subregion was close behind, and strikingly better than the other two subregions. The Irrigated Plains Subregions still had the largest share of families in the poor income groups and was weak in the upper middle ($7,000--$10,000) and upper ($10,000--$25,000) income groups. Families in the South Platte River Basin had higher incomes than those in the State of Colorado as a whole. Colorado was considerably better off than Nebraska and had very much the same distribution as Wyoming. Colorado income distribution was quite similar to that of the United States, but with fewer families with less than $3,000

TABLE c-51

DISTRIBUTION OF FAMILIES BY INCOME GROUP IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS AND COUNTIES, 1950

Area	Total Number of Families	Number of Families with Money Income of:					
		Less Than $2,000	Less Than $3,000	$3,000-$4,999	$5,000-$6,999	$7,000-$9,999	Over $10,000
Metropolitan							
Adams	9,085	2,145	4,195	3,350	1,010	325	205
Arapahoe	13,360	2,660	5,390	5,565	1,555	495	355
Boulder	11,740	3,445	6,165	3,720	1,075	465	315
Denver	104,365	20,010	38,485	38,290	16,360	6,480	4,750
Jefferson	13,750	2,765	5,480	5,475	1,790	640	365
	152,300	31,025	59,715	56,400	21,790	8,405	5,990
Irrigated Plains							
Larimer	11,035	3,530	6,080	3,235	970	450	300
Logan	4,185	1,280	2,150	1,265	455	165	150
Morgan	4,220	1,475	2,420	1,090	430	110	170
Weld	15,605	5,295	8,935	4,195	1,415	565	495
	35,045	11,580	19,585	9,785	3,270	1,290	1,115
Mountain							
Clear Creek	820	220	425	255	110	25	5
Gilpin	200	85	130	65	5	0	0
Park	560	175	295	160	75	5	25
	1,580	480	850	480	190	30	30
Dry Plains							
Douglas	860	245	510	260	70	10	10
Elbert	1,010	480	710	200	45	30	25
Sedgwick	1,285	400	700	295	150	80	60
Washington	1,850	710	1,155	380	155	95	65
Cheyenne	3,090	780	1,400	930	370	160	230
Deuel	920	265	455	290	85	40	50
Keith	1,840	445	865	545	135	110	185
Kimball	1,210	360	620	300	90	85	115
Laramie	10,810	1,660	3,470	4,480	1,950	500	410
	22,875	5,345	9,885	7,680	3,050	1,110	1,150
South Platte River Basin	211,800	48,430	90,035	74,345	28,300	10,835	8,285

Source: U.S. Bureau of Census, Census of Population, General Characteristics, 1950 (Table 45)

TABLE c-52

PERCENTAGE DISTRIBUTION OF FAMILIES BY INCOME GROUP IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND RELATED REGIONS, 1950

Area	Less Than $2,000	Less Than $3,000	$3,000-$4,999	$5,000-$6,999	$7,000-$9,999	Over $10,000
Metropolitan						
Adams	23.6	46.2	36.9	11.1	3.6	2.2
Arapahoe	19.9	40.3	41.6	11.6	3.7	2.6
Boulder	29.3	52.5	31.7	9.2	4.0	2.7
Denver	19.2	36.9	36.7	15.7	6.2	4.6
Jefferson	20.1	39.8	39.8	13.0	4.6	2.6
	20.4	39.2	37.0	14.3	5.5	3.9
Irrigated Plains						
Larimer	32.0	55.1	29.3	8.8	4.1	2.7
Logan	30.6	51.4	30.2	10.9	3.9	3.6
Morgan	35.0	57.3	25.8	10.2	2.6	4.0
Weld	33.9	57.2	26.9	9.1	3.6	3.2
	33.0	55.9	27.9	9.3	3.7	3.2
Mountain						
Clear Creek	26.8	51.8	31.1	13.4	3.0	0.6
Gilpin	42.5	64.0	23.5	2.5	0	0
Park	31.2	52.7	28.6	13.4	0.9	5.6
	30.4	53.8	30.4	12.0	1.9	1.9
Dry Plains						
Douglas	28.5	59.3	30.2	8.1	1.2	1.2
Elbert	47.5	70.3	19.8	4.4	3.0	2.5
Sedgwick	31.1	54.5	23.0	11.7	6.2	4.7
Washington	38.4	62.4	20.5	8.4	5.1	3.5
Cheyenne	25.2	45.3	30.1	12.0	5.2	7.4
Deuel	28.8	49.4	31.5	9.2	4.3	5.4
Keith	24.2	47.0	29.6	7.3	6.0	10.0
Kimball	29.8	51.2	24.8	7.4	7.0	9.5
Laramie	15.4	32.1	41.4	18.0	4.1	3.8
	23.4	43.2	33.6	13.3	4.8	5.0
South Platte River Basin	22.9	42.5	35.1	13.4	5.1	3.9
Colorado	27.6	48.4	42.4	11.4	4.4	3.4
Nebraska	30.9	53.8	29.9	9.8	3.7	2.7
Wyoming	20.7	38.2	38.0	15.1	5.0	3.8
United States	24.6	42.6	34.2	14.2	5.8	3.2

Source: Table c-51 and Statistical Abstract of the United States

TABLE c-53

DISTRIBUTION OF FAMILIES BY INCOME GROUP IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS AND COUNTIES, 1960

Area	Total Number of Families	Number of Families with Money Income of:					
		Less Than $2,000	Less Than $3,000	$3,000-$4,999	$5,000-$6,999	$7,000-$9,999	Over $10,000
Metropolitan							
Adams	28,762	1,440	2,768	5,456	8,887	8,062	3,589
Arapahoe	28,377	1,563	2,781	4,351	6,622	7,961	6,662
Boulder	18,325	1,485	3,033	3,539	4,638	4,203	2,912
Denver	124,635	10,019	18,862	23,121	29,794	29,458	23,400
Jefferson	33,386	1,720	3,177	4,367	8,359	9,778	7,705
	233,485	16,227	30,621	40,834	58,300	59,462	44,268
Irrigated Plains							
Larimer	13,847	1,731	3,388	3,537	3,232	2,242	1,448
Logan	5,097	464	1,036	1,274	1,245	961	581
Morgan	5,424	663	1,363	1,519	1,238	818	486
Weld	18,105	2,290	4,851	4,857	3,862	2,867	1,668
	42,473	5,148	10,638	11,187	19,577	6,888	4,183
Mountain							
Clear Creek	807	62	135	254	186	150	82
Gilpin	190	16	42	65	49	24	10
Park	515	57	97	170	87	122	39
	1,512	135	274	489	322	296	131
Dry Plains							
Douglas	1,267	139	277	322	378	204	86
Elbert	1,004	210	426	271	153	118	36
Sedgwick	1,111	117	226	347	257	175	106
Washington	1,723	232	471	506	354	229	163
Cheyenne	3,835	319	671	884	1,169	673	438
Deuel	856	114	204	264	219	105	64
Keith	2,172	163	491	711	488	304	178
Kimball	2,043	146	256	427	560	518	282
Laramie	15,666	779	1,699	3,209	4,033	3,845	2,880
	29,677	2,219	4,721	6,941	7,611	6,171	4,233
South Platte River Basin	307,147	23,729	46,254	59,451	75,810	72,817	52,815

Source: U.S. Bureau of Census, Census of Population, General, Social, and Economic Characteristics, 1960

TABLE c-54

PERCENTAGE DISTRIBUTION OF FAMILIES BY INCOME GROUP IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES AND RELATED REGIONS, 1960

Area	Less Than $2,000	Less Than $3,000	$3,000-$4,999	$5,000-$6,999	$7,000-$9,999	Over $10,000
Metropolitan						
Adams	5.0	9.6	19.0	30.8	28.0	12.5
Arapahoe	5.5	9.8	15.3	23.3	28.0	23.5
Boulder	8.1	16.6	19.3	25.3	22.9	15.9
Denver	8.0	15.1	18.6	23.9	23.6	18.8
Jefferson	5.2	9.5	13.1	25.0	29.3	23.0
	6.9	13.1	17.5	25.0	25.5	18.9
Irrigated Plains						
Larimer	12.5	24.5	25.5	23.3	16.2	10.5
Logan	9.1	20.3	25.0	24.4	18.8	11.4
Morgan	12.2	25.1	28.0	22.8	15.1	9.0
Weld	12.6	26.8	26.8	21.3	15.8	9.2
	12.1	25.0	26.3	22.5	16.2	9.9
Mountain						
Clear Creek	7.7	16.7	31.5	23.0	18.6	10.1
Gilpin	8.4	22.1	34.2	25.8	12.6	5.3
Park	11.1	18.8	33.0	16.9	23.7	7.6
	8.9	18.1	32.3	21.3	19.6	8.7
Dry Plains						
Douglas	11.0	21.9	25.4	29.8	16.1	6.8
Elbert	20.9	42.4	27.0	15.2	11.8	3.6
Sedgwick	10.5	20.3	31.2	23.1	15.8	9.6
Washington	13.5	27.3	29.4	20.5	13.3	9.5
Cheyenne	8.3	17.5	23.0	30.5	17.5	11.4
Deuel	13.3	23.8	30.8	25.6	12.3	7.4
Keith	7.5	22.6	32.7	22.5	14.0	8.2
Kimball	7.1	12.5	20.9	27.4	25.4	13.8
Laramie	5.0	10.8	20.5	25.7	24.5	18.3
	7.5	15.9	23.4	25.6	20.8	14.3
South Platte River Basin	7.7	15.0	19.4	24.7	23.7	17.2
Colorado	9.6	18.3	21.5	33.4	12.2	14.6
Nebraska	14.7	26.1	25.8	29.4	8.7	10.2
Wyoming	9.0	16.5	21.7	35.3	12.0	14.6
United States	13.0	21.7	20.3	23.7	20.0	14.3

Source: Table c-53 and *Statistical Abstract of the United States* income, more in the $5,000--$7,000 income group and considerably fewer in the $7,000--$10,000 group and about the same over $10,000.

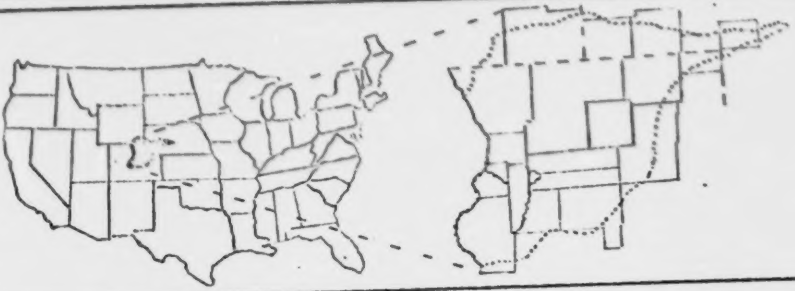
The reconnaissance review sheet summarizing the Economic Activities in the South Platte River Basin is seen in Figure c-35.

On the grounds that this case study is only illustrative and not definitive, several important aspects of the economy of the South Platte River Basin that could be included in a completed Regional Reconnaissance are omitted. These include an analysis of the recreation resources and activity which are becoming increasingly important to the region, a more detailed reference to the education and research institutions which are an important part of the new research related manufacturing activity and a specific discussion of transportation facilities, power facilities, rates, etc.

Two final steps remain to be taken. The first of these is to review all the data collected and summarized in the sections on Population, Environment and Economic Activities. From the analysis made of these sections, the practitioner assesses the Stategic Factors in the current functioning of the region. These may change over time and vary with the purpose at hand. Many factors may be of importance in varying degree, and the practitioner must try to select those most important for his purpose. An assessment of the Stategic Factors is the current growth of the South Platte River Basin is seen in Figure c-36. Based upon this summing up of what he has found out about the region and the objectives in making the study, recommendations to effect these goals can be drawn. The completed reconnaissance review sheet in seen in Figure 4, page 204.

Regional Reconnaissance

Region:
South Platte River Basin
Investigator:
Karl Starch
Date:
1966



I Population Trends

II Environment

III. Economic Activities: Employment, Production and Income

The region was by-passed by early settlement. The mining boom in the mountains (1860-1890) was the first important economic activity. Irrigated agriculture developed early (1870) and has been the economic mainstay of the region until the past two decades. This remains one of the most productive agricultural regions in the nation. Denver has long been a trade and service center for the Rocky Mountain Region. Manufacturing is becoming a dominant activity.

In 1950-60, employment in the SPRB grew at a rate 2 3/4 times faster than the U.S. (led by the metro subregion, with the plains areas of the basin growing at about the same rate as the U.S., and the mountain subregion declining). Employment in the primary industries is decreasing at a slower rate than the U.S.; secondary industry employment is growing faster (SPRB is approaching U.S. rate); employment in tertiary activities is increasing at a slower rate than the U.S. (the U.S. is approaching the SPRB rate). The rate of growth is fastest in manufacturing, public administration, transportation, and communications. Manufacturing was third in importance as an employer in 1940, first in 1960 (it was first in the U.S. in all three census years). Agriculture ranks third as an employer in the U.S. but eighth in the SPRB.

In 1950-60, the SPRB showed no growth advantage in employment from its industry mix (except moderately in services). It did have a regional share (competitive) advantage in agriculture, transportation and some services. Its most striking competitive advantage is in durable manufacturing, which was ten times its national growth effect and twenty times its industry mix effect (the region showed a competitive disadvantage in durable manufacturing in 1940-50). The relative growth position of the region in terms of employment change was less favorable in the 1950-60 period than in 1940-50's, but remained above that of the Rocky Mountain and Southwest Regions, being second only to the Far West among major regions of the U.S.

The SPRB has a highly skilled labor force with the proportion of college trained people 50% greater than in the U.S. labor force.

The value added in manufacturing, $1 billion in 1963, represented a 65% increase over five years earlier, and had a like increase for the preceding five year period. The largest number of manufacturing firms in 1964 was in food and kindred products. The largest increase in number of firms, 1956-1964, was in machinery (except electrical), fabricated metal, electrical machinery and food and kindred products.

IV Strategic Factors

V Recommendations

Recommendations

Strategic Factors

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Trade, with sales of over $5 billion in 1963, is bigger than services, with 1963 receipts of $1/3 billion, but services are growing faster.

Per capita income is above the U.S. average. The rate of increase in both per capita and total personal income has been faster than the U.S. rate since 1940, but the rates are converging. Because of a high rate of population growth, the rate of increase in total income has been the greater. There has been considerable convergence in per capita incomes within the basin, although the metropolitan area remains much the wealthiest and the mountain and irrigated plains subregions the lowest. The income position of the region has improved greatly since 1950. In 1950, distribution of families among income groups was much the same as the U.S. In 1960, the SPRB had a much smaller portion of its families in the less than $3000 group and a much higher portion in the above $7,000 brackets than did the U.S.

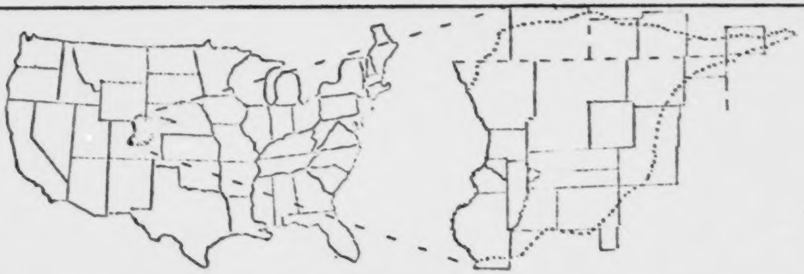
Environment

Population Trends

Fig. c-35 --Partial Reconnaissance Review Sheet, III. Economic Activities

Regional Reconnaissance

Region:
South Platte River Basin
Investigator:
Karl Starch
Date:
1966



I	II	III	IV. Strategic Factors	V
Population Trends	Environment	Economic Activities	The region's current growth is largely based on industries whose most important input is skilled labor. The rise in importance of this type of industry (research-space-electronic-government related) producing high value/bulk products along with improvements in transportation technology and facilities has in part overcome the region's poor market access, and have made its senic climate resources exploitable, since these industries are free to locate anywhere, and the skilled people basic to their operation choose to live where they find the most enjoyable living. Another major industry, recreation, is likewise based on the natural features of the area as well as population growth and high incomes. Trade and services are growing in support of these other activities. Decentralization trends in the food processing industry and its location to sources of agricultural raw materials is also working to the region's advantage.	Recommendations

Fig. c-36 --Partial Reconnaissance Review Sheet, IV. Strategic Factors

Appendix B

Working Papers on Population Projections of the South Platte River Basin

THE RELATIVE IMPORTANCE OF DIFFERENT FACTORS IN POPULATION GROWTH OF THE AREA

Metropolitan Subregion

Past Future
☐☐

	Retarding 1	None 2	Weak 3	Moderate 4	Strong 5
Location Access to markets Difficulty of transportation	☐☐	☐☐	☐☐	☐☐	☐☐
Topography Mountain barriers Suitable land space	☐☐	☐☐	☐☐	☐☐	☐☐
Climate Health Agriculture-manufacturing General human living Recreation-tourist	☐☐	☐☐	☐☐	☐☐	☐☐
Sociological Factors Predominant religion Race Level of education Attitudes towards industrial development, etc.	☐☐	☐☐	☐☐	☐☐	☐☐
Natural Resources Land resources Agricultural, Mineral, Forest, Recreational	☐☐	☐☐	☐☐	☐☐	☐☐
Water resources Ample or limited Transportation, Recreational	☐☐	☐☐	☐☐	☐☐	☐☐

Fig. a-4 --Population Projection Worksheet I

Metropolitan Subregion Continued

Past Future
☐ ☐

	Retarding 1	None 2	Weak 3	Moderate 4	Strong 5
Economic Factors					
Expansion of agriculture Lumbering, or mining	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Expansion of manufacturing (List particular types of industry) 1. 2.	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Development of certain types of land, water, power or mineral resources, or natural facilities in the area	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Broad and diverse economic development	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Development of specialized distribution or service activities	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Development of recreational assets or growth of tourist trade	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Establishment of military bases or depots	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
General rise in national levels of production and employment	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Expansion of local, regional or national markets for goods and services produced	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Technological development in certain industries	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Defense contract; or defense-space impetus to industrial development	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Establishment or expansion of employment by Federal and State Agencies	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Development of Science-Industry complex	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐
Other economic factors or conditions	☐ ☐	☐ ☐	☐ ☐	☐ ☐	☐ ☐

Fig. a-4 --Population Projection Worksheet I, Continued

Is the region predominantly:	Metropolitan Subregion	Irrigated Plains Subregion	Mountain Subregion	Dry Plains Subregion	South Platte River Basin
A sparsely populated rural region depending chiefly on extractive activities of agriculture, lumbering, or mining?					
A well populated and developed region with many urban communities and a diversified economy?					
A metropolitan urban region					
A highly industrialized area					
A major economic center of commerce and industry for its economic region					
A manufacturing community					
A transportation center					
A center of retail and wholesale trade and service activities					
A government center					
A dormitory community or area of specialized activities within a large metropolitan district					
Other type of region specify:					

Fig. a-5 --Population Projection Worksheet II

RELATIVE OPPORTUNITIES FOR EXPANSION IN EMPLOYMENT IN THE DECADE

	Metropolitan	Irrigated Plains	Mountain	Dry Plains	South Platte River Basin
Agriculture					
Mining					
Construction					
Manufacturing					
Utilities, Transportation Communications					
Trade (wholesale, retail)					
Finance, Insurance, Real Estate					
Services					
Public Administration					

Fig. a-6 --Population Projection Worksheet III

Past - - - - Future Factors Causing Net Migration	Metropolitan	Irrigated Plains	Mountain	Dry Plains	South Platte River Basin
1. Per capita incomes in the area are higher (or lower)					
2. Economic opportunities are better (or worse). The area is growing at a faster (or slower rate) than adjacent areas.					
3. Broad trends of urban-rural migration. Decline in agriculture.					
4. Climate, Moving for reasons of health or just a generally more attractive area in which to live.					

Fig. a-8 --Population Projection Worksheet IV

How will the future compare to the past?			Metro. Sub-region	I. Plns. Sub-region	Mountain Sub-region	D. Plns. Sub-region	SPRB
How will growth in economic activities compare to the decade of:	1940-50	Less					
		Same					
		Greater					
	1950-60	Less					
		Same					
		Greater					
Will migration be:		Less					
		Same					
		Greater					
Will the relationship between economic and population growth of the area and the state and nation be:		Less					
		Same					
		Greater					

Fig. a-8 --Population Projection Worksheet V

TABLE a-18

URBAN AND RURAL POPULATION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS 1940, 1950, 1960

Area	1940					1950				
	Rural					Rural				
	Farm	Non-farm	Total	Urban	Total	Farm	Non-farm	Total	Urban	Total
Metropolitan										
Adams	8,953	7,234	16,187	6,294	22,481	7,617	9,123	16,740	23,494	40,234
Aurora				3,437					11,421	
Brighton				4,029					4,336	
Commerce Town										
Derby									2,840	
Thornton										
Westminster									1,686	
Arapahoe	5,264	16,034	21,298	10,852	32,150	3,090	8,144	11,234	40,891	52,125
Englewood				9,680					16,869	
Littleton		2,244							3,378	
Sheridan		712							1,715	
Boulder	7,514	9,560	17,074	20,364	37,438	4,751	11,640	16,391	31,905	48,296
Boulder				12,958					19,999	
Broomfield Hts.										
Lafayette		2,052					2,090			
Longmont				7,406					8,099	
Denver				322,412	322,412				415,786	415,786
Denver				322,412					415,786	
Jefferson	8,159	19,391	27,550	3,175	30,725	5,948	18,753	24,701	30,986	55,687
Arvada										
Edgewater		1,648							2,580	
Golden				3,175					5,238	
Lakewood										
Wheatridge										
Irrigated Plains										
Larimer	9,906	7,237	17,143	18,396	35,539	7,331	14,513	21,844	21,710	43,554
Fort Collins				12,251					14,937	
Loveland				6,145					6,773	
Logan	8,242	2,717	10,959	7,411	18,370	6,650	3,048	9,534	7,534	17,187
Sterling				7,411					7,534	
Morgan	8,045	4,285	12,330	4,884	17,214	7,735	5,024	12,759	5,315	18,074
Brush		2,481					2,431			
Fort Morgan				4,884					5,315	
Weld	28,865	18,887	47,752	15,995	63,747	26,013	21,137	47,150	20,354	67,504
Greeley				15,995					20,354	

Source: U. S. Bureau of Census, Census of Population, Number of Inhabitants, 1940, 1950, 196

TABLE a-18

PULATION IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS AND COUNTIES
1940, 1950, 1960

		1950					1960				
		Rural					Rural				
rban	Total	Farm	Non-farm	Total	Urban	Total	Farm	Non-farm	Total	Urban	Total
6,294	22,481	7,617	9,123	16,740	23,494	40,234	4,041	10,333	14,374	105,922	120,296
3,437					11,421					48,548	
4,029					4,336					7,055	
										8,970	
					2,840					10,124	
										11,353	
					1,686					13,850	
10,852	32,150	3,090	8,144	11,234	40,891	52,125	1,648	7,837	9,485	103,941	113,426
9,680					16,869					33,398	
					3,378					13,670	
					1,715					3,559	
20,364	37,438	4,751	11,640	16,391	31,905	48,296	3,533	14,367	17,900	56,354	74,254
12,958					19,999					37,718	
										4,535	
			2,090							2,612	
7,406					8,099					11,489	
22,412	322,412				415,786	415,786				493,887	493,887
22,412					415,786					493,887	
3,175	30,725	5,948	18,753	24,701	30,986	55,687	1,775	18,816	20,591	106,929	127,520
										19,242	
					2,580					4,314	
3,175					5,238					7,118	
										19,338	
										21,619	
18,396	35,539	7,331	14,513	21,844	21,710	43,554	5,542	13,040	18,582	34,761	53,343
12,251					14,937					25,027	
6,145					6,773					9,734	
7,411	18,370	6,650	3,048	9,534	7,534	17,187	5,015	4,536	9,551	10,751	20,302
7,411					7,534					10,751	
4,884	17,214	7,735	5,024	12,759	5,315	18,074	5,351	4,841	10,192	11,000	21,192
			2,431							3,621	
4,884					5,315					7,379	
15,995	63,747	26,013	21,137	47,150	20,354	67,504	19,392	26,638	46,030	26,314	72,344
15,995					20,354					26,314	

f Population, Number of Inhabitants, 1940, 1950, 1960

TABLE a-18--Continued

Area	1940					1950				
	Rural			Urban	Total	Rural			Urban	Total
	Farm	Non-farm	Total			Farm	Non-farm	Total		
Mountain										
Clear Creek	148	3,636	3,784		3,784	115	3,174	3,289		3,289
Gilpin	169	1,456	1,625		1,625	70	780	850		850
Park	1,179	2,093	3,272		3,272	667	1,203	1,870		1,870
Dry Plains										
Douglas	1,909	1,587	3,496		3,496	1,664	1,843	3,507		3,507
Elbert	3,958	1,502	5,460		5,460	3,047	1,430	4,477		4,477
Sedgwick	2,679	2,615	5,294		5,294	2,062	3,033	5,095		5,095
Washington	5,996	2,340	8,336		8,336	4,755	2,765	7,520		7,520
Cheyenne	4,460	1,657	6,117	3,388	9,505	3,521	3,648	7,169	4,912	12,081
Sidney				3,388					4,912	
Deuel	1,929	1,651	3,580		3,580	1,326	2,004	3,330		3,330
Keith	3,340	1,834	5,174	3,159	8,333	2,469	1,524	3,993	3,456	7,449
Ogallala				3,159					3,456	
Kimball	1,739	2,174	3,913		3,913	1,631	2,652	4,283		4,283
Kimball		1,725					2,048			
Laramie	3,996	7,181	11,177	22,474	33,651	3,259	12,468	15,727	31,935	47,662
Cheyenne				22,474					31,935	
Total SPRB	116,450	115,071	231,521	438,804	670,325	93,676	127,906	221,582	638,278	859,860

Source: U. S. Bureau of Census, Census of Population, Number of Inhabitants, 1940, 1950, 1960

TABLE a-18--Continued

		1950					1960				
		Rural					Rural				
Urban	Total	Farm	Non-farm	Total	Urban	Total	Farm	Non-farm	Total	Urban	Total
	3,784	115	3,174	3,289		3,289	56	2,737	2,793		2,793
	1,625	70	780	850		850		685	685		685
	3,272	667	1,203	1,870		1,870	407	1,415	1,822		1,822
	3,496	1,664	1,843	3,507		3,507	895	3,921	4,816		4,816
	5,460	3,047	1,430	4,477		4,477	2,142	1,566	3,708		3,708
	5,294	2,062	3,033	5,095		5,095	989	3,253	4,242		4,242
	8,336	4,755	2,765	7,520		7,520	3,353	3,272	6,625		6,625
3,388	9,505	3,521	3,648	7,169	4,912	12,081	2,964	3,860	6,824	8,004	14,828
3,388					4,912					8,004	
	3,580	1,326	2,004	3,330		3,330	1,023	2,102	3,125		3,125
3,159	8,333	2,469	1,524	3,993	3,456	7,449	1,977	1,731	3,708	4,250	7,958
3,159					3,456					4,250	
	3,913	1,631	2,652	4,283		4,283	1,262	2,329	3,591	4,384	7,975
			2,048							4,384	
22,474	33,651	3,259	12,468	15,727	31,935	47,662	2,387	14,257	16,644	43,505	60,149
22,474					31,935					43,505	
38,804	670,325	93,676	127,906	221,582	638,278	859,860	63,752	141,536	205,288	1,010,002	1,215,290

of Population, Number of Inhabitants, 1940, 1950, 1960

TABLE a-19

ARITHMETIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS AND COUNTIES, BASED ON 1940-1950 CHANGE

Area	1940-50 Change	1960	1970	1980	1990
Metropolitan					
Adams	17,753	120,296	138,049	155,802	173,555
Arapahoe	19,975	113,426	133,401	153,376	173,351
Boulder	10,858	74,254	85,112	95,970	106,828
Denver	92,374	493,887	587,261	680,635	774,009
Jefferson	24,962	127,520	152,482	177,444	202,406
	166,922	929,383	1,096,305	1,263,227	1,430,149
Irrigated Plains					
Larimer	8,015	53,343	61,358	69,373	77,388
Logan	-1,183	20,302	19,119	17,119	17,936
Morgan	860	21,192	22,052	22,912	23,772
Weld	3,757	72,344	76,101	79,858	83,615
	11,449	167,181	178,630	190,079	201,528
Mountain					
Clear Creek	-495	2,793	2,298	1,803	1,308
Gilpin	-775	685	0	0	0
Park	-1,402	1,882	420	0	0
	-2,672	5,300	2,628	0	0
Dry Plains					
Douglas	11	4,816	4,827	4,838	4,849
Elbert	-983	3,708	2,725	1,742	759
Sedgwick	-199	4,242	4,043	3,844	3,645
Washington	-816	6,625	5,809	4,993	4,177
Cheyenne	2,576	14,828	17,404	19,980	22,556
Deuel	-250	3,125	2,875	2,625	2,375
Keith	-884	7,958	7,074	6,190	5,306
Kimball	370	7,975	8,345	8,715	9,085
Laramie	14,011	60,149	74,160	88,171	102,182
	13,836	113,426	127,262	141,098	154,934
South Platte River Basin	189,525	1,215,290	1,404,815	1,594,340	1,783,865
Colorado	201,793	1,753,947	1,955,740	2,157,533	2,359,326
Nebraska	10,000	1,411,000	1,421,000	1,431,000	1,441,000
Wyoming	40,000	330,000	370,000	410,000	450,000

TABLE a-19--Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	191,308	209,061	226,814	244,567	262,320
Arapahoe	193,326	213,301	233,276	253,251	273,226
Boulder	117,686	128,544	139,402	150,260	161,118
Denver	867,383	960,757	1,054,131	1,147,505	1,240,879
Jefferson	227,368	252,330	277,292	302,254	327,216
	1,597,071	1,763,993	1,930,915	2,097,837	2,264,759
Irrigated Plains					
Larimer	85,403	93,418	101,433	109,448	117,463
Logan	16,753	15,570	14,387	13,204	12,021
Morgan	24,632	25,492	26,352	27,212	28,072
Weld	87,372	91,129	94,886	98,643	102,400
	212,977	224,426	235,875	247,324	258,773
Mountain					
Clear Creek	813	318	0	0	0
Gilpin	0	0	0	0	0
Park	0	0	0	0	0
	0	0	0	0	0
Dry Plains					
Douglas	4,860	4,871	4,882	4,893	4,904
Elbert	0	0	0	0	0
Sedgwick	3,446	3,247	3,048	2,849	2,650
Washington	3,361	2,545	1,729	913	97
Cheyenne	25,132	27,708	30,284	32,860	35,436
Deuel	2,125	1,875	1,625	1,375	1,125
Keith	4,422	3,538	2,654	1,770	886
Kimball	9,455	9,825	10,195	10,565	10,935
Laramie	116,193	130,204	144,215	158,226	172,237
	168,770	182,606	196,442	210,278	224,114
South Platte River Basin	1,973,390	2,162,915	2,352,440	2,541,965	2,731,490
Colorado	2,561,119	2,762,912	2,964,705	3,166,493	3,368,291
Nebraska	1,451,000	1,461,000	1,471,000	1,481,000	1,491,000
Wyoming	490,000	530,000	570,000	610,000	650,000

TABLE a-19--Continued

Area	2050	2060	2070
Metropolitan			
Adams	280,073	297,826	315,579
Arapahoe	293,201	313,176	333,151
Boulder	171,976	182,834	193,692
Denver	1,334,253	1,427,627	1,521,001
Jefferson	352,178	377,140	402,102
	2,431,681	2,598,603	2,765,525
Irrigated Plains			
Larimer	125,478	133,493	141,508
Logan	10,838	9,655	7,289
Morgan	28,932	29,792	30,652
Weld	106,157	109,914	113,671
	270,222	281,671	293,120
Mountain			
Clear Creek	0	0	0
Gilpin	0	0	0
Park	0	0	0
	0	0	0
Dry Plains			
Douglas	4,915	4,926	4,937
Elbert	0	0	0
Sedgwick	2,451	2,252	2,053
Washington	0	0	0
Cheyenne	38,012	40,588	43,164
Deuel	875	625	375
Keith	2	0	0
Kimball	11,305	11,675	12,045
Laramie	186,248	200,259	214,270
	237,950	251,786	265,622
South Platte River Basin	2,921,015	3,110,540	3,300,065
Colorado	3,570,084	3,771,877	3,972,670
Nebraska	1,501,000	1,511,000	1,521,000
Wyoming	690,000	730,000	770,000

TABLE a-20

ARITHMETIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COUNTIES BASED ON 1930-1960 CHANGE

Area	1930-60 Change	1960	1970	1980	1990
Metropolitan					
Adams	33,350	120,296	153,646	186,996	220,346
Arapahoe	30,259	113,426	143,685	173,944	204,203
Boulder	13,933	74,254	88,187	102,120	116,053
Denver	68,675	493,887	562,562	631,237	699,912
Jefferson	35,237	127,520	162,757	197,994	233,231
	181,454	929,383	1,110,837	1,292,291	1,473,745
Irrigated Plains					
Larimer	6,735	53,343	60,078	66,813	73,548
Logan	119	20,302	20,421	20.540	20.659
Morgan	969	21,192	22,161	23,130	24,099
Weld	2,416	72,344	74,760	77,176	79,592
	10,239	167,181	177,420	187,659	197,898
Mountain					
Clear Creek	213	2,793	3,006	3,219	3,432
Gilpin	-176	685	509	333	157
Park	-77	1,822	1,745	1,668	1,591
	-40	5,300	5,260	5,220	5,180
Dry Plains					
Douglas	439	4,816	5,255	5,694	6,133
Elbert	-957	3,708	2,751	1,794	837
Sedgwick	-446	4,242	3,796	3,350	2,904
Washington	-989	6,625	5,636	4,647	3,658
Cheyenne	1,547	14,828	16,375	17,922	19,469
Deuel	-289	3,125	2,836	2,547	2,258
Keith	412	7,958	8,370	8,782	9,194
Kimball	1,100	7,975	9,075	10,175	11,275
Laramie	11,101	60,149	71,250	82,351	93,452
	11,918	113,426	125,344	137,262	149,180
South Platte River Basin	203,579	1,215,290	1,418,869	1,622,448	1,826,027
Colorado	239,385	1,753,947	1,993,332	2,232,717	2,472,102
Nebraska	11,000	1,411,000	1,422,000	1,433,000	1,444,000
Wyoming	34,667	330,000	364,667	399,334	434,001

TABLE a-20 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	253,696	287,046	320,396	353,746	387,096
Arapahoe	234,462	264,721	294,980	325,239	355,498
Boulder	129,986	143,919	157,852	171,785	185,718
Denver	768,587	837,262	905,937	974,612	1,043,287
Jefferson	268,468	303,705	338,942	374,179	409,416
	1,655,199	1,836,653	2,018,107	2,199,561	2,381,015
Irrigated Plains					
Larimer	80,283	87,018	93,753	100,488	107,223
Logan	20,778	20,897	21,016	21,135	21,254
Morgan	25,068	26,037	27,006	27,975	28,944
Weld	82,008	84,424	86,840	89,256	91,672
	208,137	218,376	228,615	238,854	249,093
Mountain					
Clear Creek	3,645	3,858	4,071	4,284	4,497
Gilpin	-19	-195	-371	-547	-723
Park	1,514	1,437	1,360	1,283	1,206
	5,140	5,100	5,060	5,020	4,980
Dry Plains					
Douglas	6,572	7,011	7,450	7,889	8,328
Elbert	-120	-1,077	-2,034	-2,991	-3,948
Sedgwick	2,458	2,012	1,566	1,120	674
Washington	2,669	1,680	691	-298	-1,287
Cheyenne	21,016	22,563	24,110	25,657	27,204
Deuel	1,969	1,680	1,391	1,102	813
Keith	9,606	10,018	10,430	10,842	11,254
Kimball	12,375	13,475	14,575	15,675	16,775
Laramie	104,553	115,654	126,755	137,856	148,957
	161,098	173,016	184,934	196,852	208,770
South Platte River Basin	2,029,606	2,233,185	2,436,764	2,640,343	2,843,922
Colorado	2,711,487	2,950,872	3,190,257	3,429,642	3,669,027
Nebraska	1,455,000	1,466,000	1,477,000	1,488,000	1,499,000
Wyoming	468,668	503,335	538,002	572,669	607,336

TABLE a-20 Continued

Area	2050	2060	2070
Metropolitan			
Adams	420,446	453,796	487,146
Arapahoe	385,757	416,016	446,275
Boulder	199,651	213,584	227,517
Denver	1,111,962	1,180,637	1,249,312
Jefferson	444,653	479,890	515,127
	2,562,469	2,743,923	2,925,377
Irrigated Plains			
Larimer	113,958	120,693	127,428
Logan	21,373	21,492	21,611
Morgan	29,913	30,882	31,851
Weld	94,088	96,504	98,920
	259,332	269,571	279,810
Mountain			
Clear Creek	4,710	4,923	5,136
Gilpin	-899	-1,075	-1,251
Park	1,129	1,052	975
	4,940	4,900	4,860
Dry Plains			
Douglas	8,767	9,206	9,645
Elbert	-4,905	-5,862	-6,819
Sedgwick	228	-218	-664
Washington	-2,276	-3,265	-4,254
Cheyenne	28,751	30,298	31,845
Deuel	524	235	-54
Keith	11,666	12,078	12,490
Kimball	17,875	18,975	20,075
Laramie	160,058	171,159	182,260
	220,688	232,606	244,524
South Platte River Basin	3,047,501	3,251,080	3,545,659
Colorado	3,908,412	4,147,797	4,387,182
Nebraska	1,510,000	1,521,000	1,532,000
Wyoming	642,003	676,670	711,337

TABLE a-21

ARITHMETIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COUNTIES BASED ON 1940-1960 CHANGE

Area	1940-60 Change	1960	1970	1980	1990
Metropolitan					
Adams	48,908	120,296	169,204	218,112	267,020
Arapahoe	40,638	113,426	154,064	194,702	235,340
Boulder	18,408	74,254	92,662	111,070	129,478
Denver	85,738	493,887	579,625	665,363	751,101
Jefferson	48,398	127,520	175,918	224,316	272,714
	242,090	929,383	1,171,473	1,413,563	1,655,653
Irrigated Plains					
Larimer	8,902	53,343	62,245	71,147	80,049
Logan	966	20,302	21,268	22,234	23,200
Morgan	1,989	21,192	23,181	25,170	27,159
Weld	4,298	72,344	76,642	80,940	85,238
	16,155	167,181	183,336	199,491	215,646
Mountain					
Clear Creek	-496	2,793	2,297	1,801	1,305
Gilpin	-470	685	215	-255	-725
Park	-725	1,822	1,097	372	-353
	-1,691	5,300	3,609	1,918	227
Dry Plains					
Douglas	660	4,816	5,476	6,136	6,796
Elbert	-876	3,708	2,832	1,956	1,080
Sedgwick	-526	4,242	3,716	3,190	2,664
Washington	-856	6,625	5,769	4,913	4,057
Cheyenne	2,662	14,828	17,490	20,152	22,814
Deuel	-228	3,125	2,897	2,669	2,441
Keith	-188	7,958	7,770	7,582	7,394
Kimball	2,031	7,975	10,006	12,037	14,068
Laramie	13,249	60,149	73,398	86,647	99,896
	15,928	113,426	129,354	145,282	161,210
South Platte River Basin	272,482	1,215,290	1,487,772	1,760,254	2,032,736
Colorado	315,325	1,753,947	2,069,272	2,384,597	2,699,922
Nebraska	47,500	1,411,000	1,458,500	1,506,000	1,553,500
Wyoming	39,500	330,000	369,500	409,000	448,500

TABLE a-21 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	315,928	364,836	413,744	462,652	511,560
Arapahoe	275,978	316,616	357,254	397,892	438,530
Boulder	147,886	166,294	184,702	203,110	221,518
Denver	836,839	922,577	1,008,315	1,094,053	1,179,791
Jefferson	321,112	369,510	417,908	466,306	514,704
	1,897,743	2,139,833	2,381,923	2,624,013	2,866,103
Irrigated Plains					
Larimer	88,951	97,853	106,755	115,657	124,559
Logan	24,166	25,132	26,098	27,064	28,030
Morgan	29,148	31,137	33,126	35,115	37,104
Weld	89,536	93,834	98,132	102,430	106,728
	231,801	247,956	264,111	280,266	296,421
Mountain					
Clear Creek	809	313	-183	-679	-1,175
Gilpin	-1,195	-1,665	-2,135	-2,605	-3,075
Park	-1,078	-1,803	-2,528	-3,253	-3,978
	-1,464	-3,155	-4,846	-6,537	-8,228
Dry Plains					
Douglas	7,456	8,116	8,776	9,436	10,096
Elbert	204	-672	-1,548	-2,424	-3,300
Sedgwick	2,138	1,612	1,086	560	34
Washington	3,201	2,345	1,489	633	-223
Cheyenne	25,476	28,138	30,800	33,462	36,124
Deuel	2,213	1,985	1,757	1,529	1,301
Keith	7,206	7,018	6,830	6,642	6,454
Kimball	16,099	18,130	20,161	22,192	24,223
Laramie	113,145	126,394	139,643	152,892	166,141
	177,138	193,066	208,994	224,922	240,850
South Platte River Basin	2,305,218	2,577,700	2,850,182	3,122,664	3,395,146
Colorado	3,015,247	3,330,572	3,645,897	3,961,222	4,276,547
Nebraska	1,601,000	1,648,500	1,696,000	1,743,500	1,791,000
Wyoming	488,000	527,500	567,000	606,500	646,000

TABLE [illegible]-21 Continued

Area	2050	2060	2070
Metropolitan			
Adams	560,468	609,376	658,284
Arapahoe	479,168	519,806	560,444
Boulder	239,926	258,334	276,742
Denver	1,265,529	1,351,267	1,437,005
Jefferson	563,102	611,500	659,898
	3,108,193	3,350,283	3,592,373
Irrigated Plains			
Larimer	133,461	142,363	151,265
Logan	28,996	29,962	30,928
Morgan	39,093	41,082	43,071
Weld	111,026	115,324	119,622
	312,576	328,731	344,886
Mountain			
Clear Creek	-1,671	-2,167	-2,663
Gilpin	-3,545	-4,015	-4,485
Park	-4,703	-5,428	-6,153
	-9,919	-11,610	-13,301
Dry Plains			
Douglas	10,756	11,416	12,076
Elbert	-4,176	-5,052	-5,928
Sedgwick	-492	-1,018	-1,544
Washington	-1,079	-1,935	-2,791
Cheyenne	38,786	41,448	44,110
Deuel	1,073	845	617
Keith	6,266	6,078	5,890
Kimball	26,254	28,285	30,316
Laramie	179,390	192,639	205,888
	256,778	272,706	288,634
South Platte River Basin	3,667,628	3,940,110	4,212,592
Colorado	4,591,872	4,907,197	5,222,522
Nebraska	1,838,500	1,886,000	1,933,500
Wyoming	685,500	725,000	764,500

TABLE a-22

ARITHMETIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS & COUNTIES BASED ON 1950-1960 CHANGE

Area	1950-60 Change	1960	1970	1980	1990
Metropolitan					
Adams	80,062	120,296	200,358	280,420	360,482
Arapahoe	61,301	113,426	174,727	236,028	297,329
Boulder	25,958	74,254	100,212	126,170	152,128
Denver	78,101	493,887	571,988	650,089	728,190
Jefferson	71,833	127,520	199,353	271,186	343,019
	317,255	929,383	1,246,638	1,563,893	1,881,148
Irrigated Plains					
Larimer	9,789	53,343	63,132	72,921	82,710
Logan	3,115	20,302	23,417	26,532	29,647
Morgan	3,118	21,192	24,310	27,428	30,546
Weld	4,840	72,344	77,184	82,024	86,864
	20,862	167,181	188,043	208,905	229,767
Mountain					
Clear Creek	-496	2,793	2,297	1,801	1,305
Gilpin	-165	685	520	355	190
Park	-48	1,822	1,774	1,726	1,678
	-709	5,300	4,591	3,882	3,173
Dry Plains					
Douglas	1,309	4,816	6,125	7,434	8,734
Elbert	-769	3,708	2,939	2,170	1,401
Sedgwick	-853	4,242	3,389	2,536	1,683
Washington	-895	6,625	5,730	4,835	3,940
Cheyenne	2,747	14,828	17,575	20,322	23,069
Deuel	-205	3,125	2,920	2,715	2,510
Keith	509	7,958	8,467	8,976	9,485
Kimball	3,692	7,995	11,667	15,359	19,051
Laramie	12,487	60,149	72,636	85,123	97,610
	18,022	113,426	131,448	149,470	167,492
South Platte River Basin	355,440	1,215,290	1,570,530	1,925,970	2,281,410
Colorado	428,858	1,753,947	2,182,805	2,611,663	3,040,521
Nebraska	85,000	1,411,000	1,496,000	1,581,000	1,666,000
Wyoming	39,000	330,000	369,000	408,000	447,000

TABLE a-22 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	440,544	520,606	600,668	680,730	760,792
Arapahoe	358,630	419,931	481,332	542,533	603,834
Boulder	178,086	204,044	230,002	255,960	281,918
Denver	806,291	884,392	962,493	1,040,594	1,118,695
Jefferson	414,852	486,685	558,518	630,351	702,184
	2,198,403	2,515,658	2,832,913	3,150,168	3,467,423
Irrigated Plains					
Larimer	92,494	102,288	112,077	121,866	131,655
Logan	32,762	35,877	38,992	42,107	45,222
Morgan	33,664	36,782	39,900	43,018	46,136
Weld	91,704	96,544	101,384	106,224	111,064
	250,629	271,491	292,353	313,215	334,077
Mountain					
Clear Creek	809	313	0	0	0
Gilpin	25	0	0	0	0
Park	1,630	1,582	1,534	1,486	1,438
	2,464	1,755	1,046	337	0
Dry Plains					
Douglas	10,052	11,361	12,670	13,979	15,288
Elbert	632	0	0	0	0
Sedgwick	830	0	0	0	0
Washington	3,045	2,150	1,255	360	0
Cheyenne	25,816	28,563	31,310	34,057	36,804
Deuel	2,305	2,100	1,895	1,690	1,485
Keith	9,994	10,503	11,012	11,521	12,030
Kimball	22,743	26,435	30,127	33,819	37,511
Laramie	110,097	122,584	135,071	147,558	160,045
	185,514	203,536	221,558	239,580	257,602
South Platte River Basin	2,636,850	2,992,290	3,347,730	3,703,170	4,058,610
Colorado	3,469,379	3,898,237	4,327,095	4,755,953	5,184,811
Nebraska	1,751,000	1,836,000	1,921,000	2,006,000	2,091,000
Wyoming	486,000	525,000	564,000	603,000	642,000

TABLE a-22 Continued

Area	2050	2060	2070
Metropolitan			
Adams	840,854	920,916	1,000,978
Arapahoe	665,135	726,436	787,737
Boulder	307,876	333,834	359,792
Denver	1,196,796	1,274,896	1,352,998
Jefferson	774,017	845,850	917,683
	3,784,678	4,101,933	4,419,188
Irrigated Plains			
Larimer	141,444	151,233	161,022
Logan	48,337	51,452	54,567
Morgan	49,254	52,372	55,490
Weld	115,904	120,744	125,584
	354,939	375,801	396,663
Mountain			
Clear Creek	0	0	0
Gilpin	0	0	0
Park	1,390	1,342	1,294
	0	0	0
Dry Plains			
Douglas	16,597	17,906	19,215
Elbert	0	0	0
Sedgwick	0	0	0
Washington	0	0	0
Cheyenne	39,551	42,298	45,045
Deuel	1,280	1,075	870
Keith	12,539	13,048	13,557
Kimball	41,203	44,895	48,587
Laramie	172,532	185,019	197,506
	275,624	293,646	311,668
South Platte River Basin	4,414,050	4,769,490	5,124,930
Colorado	5,613,669	6,042,527	6,471,385
Nebraska	2,176,000	2,261,000	2,346,000
Wyoming	681,000	720,000	759,000

TABLE a-23

GEOMETRIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, & COUNTIES BASED ON 1940-1950 INCREASE

Area	1940-50 Rate of Change	1960	1970	1980	1990
Metropolitan					
Adams	+79 %	120,296	215,330	385,441	689,939
Arapahoe	+62	113,426	183,750	297,675	482,234
Boulder	+29	74,254	95,788	123,567	159,401
Denver	+29	493,887	637,114	821,877	1,060,221
Jefferson	+81	127,520	230,811	417,768	756,160
	37.5%	929,383	1,277,902	1,757,115	2,416,033
Irrigated Plains					
Larimer	+23 %	53,343	65,612	80,703	99,265
Logan	- 6	20,302	19,084	17,939	16,863
Morgan	+ 5	21,192	22,252	23,365	24,533
Weld	+ 6	72,344	76,686	81,287	86,164
	8.5%	167,181	181,391	196,809	213,538
Mountain					
Clear Creek	-13 %	2,793	2,430	2,114	1,839
Gilpin	-48	685	356	185	96
Park	-43	1,822	1,039	592	337
	-30.8%	5,300	3,668	2,538	1,756
Dry Plains					
Douglas	+ 0.3%	4,816	4,830	4,844	4,859
Elbert	-18	3,708	3,041	2,494	2,045
Sedgwick	- 4	4,242	4,072	3,909	3,753
Washington	-10	6,625	5,962	5,366	4,829
Cheyenne	+27	14,828	18,832	23,917	30,375
Deuel	- 7	3,125	2,906	2,703	2,514
Keith	-10	7,958	7,162	6,446	5,801
Kimball	+ 9	7,975	8,693	9,475	10,328
Laramie	+42	60,149	85,412	121,285	172,225
	17.0%	113,426	132,708	155,268	181,664
South Platte River Basin	+16 %	1,215,290	1,409,736	1,635,294	1,896,941
Colorado	+18.0%	1,753,947	2,069,657	2,442,195	2,881,790
Nebraska	+ 0.7%	1,411,000	1,420,877	1,430,823	1,440,839
Wyoming	+15.9%	330,000	382,470	443,283	513,765

TABLE a-23 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	1,234,991	2,210,634	3,957,035	7,083,093	12,678,736
Arapahoe	781,219	1,265,575	2,050,232	3,321,376	5,380,629
Boulder	205,629	265,259	342,184	441,417	569,428
Denver	1,367,685	1,764,314	2,275,965	2,935,995	3,787,434
Jefferson	1,368,650	2,477,256	4,483,833	8,115,738	14,689,486
	3,322,045	4,567,812	6,280,742	8,636,020	11,874,528
Irrigated Plains					
Larimer	122,096	150,178	184,719	227,204	279,461
Logan	15,851	14,900	14,006	13,166	12,376
Morgan	25,760	27,048	28,400	29,820	31,311
Weld	91,334	96,814	102,623	108,780	115,307
	231,689	251,383	272,751	295,935	321,089
Mountain					
Clear Creek	1,600	1,392	1,211	1,054	917
Gilpin	50	26	14	8	4
Park	192	109	62	35	20
	1,215	841	582	403	279
Dry Plains					
Douglas	4,874	4,889	4,904	4,919	4,934
Elbert	1,677	1,375	1,128	925	758
Sedgwick	3,603	3,459	3,321	3,188	3,060
Washington	4,346	3,911	3,520	3,168	2,851
Cheyenne	38,576	48,992	62,220	79,019	100,354
Deuel	2,338	2,174	2,022	1,880	1,748
Keith	5,221	4,699	4,229	3,806	3,425
Kimball	11,258	12,271	13,375	14,579	15,891
Laramie	244,560	347,275	493,130	700,245	994,348
	212,547	248,680	290,956	340,419	398,290
South Platte River Basin	2,200,452	2,552,524	2,960,928	3,434,676	3,984,224
Colorado	3,400,512	4,012,604	4,734,873	5,587,150	6,592,837
Nebraska	1,450,925	1,461,081	1,471,309	1,481,608	1,491,979
Wyoming	595,454	690,131	799,862	927,040	1,074,439

TABLE a-23 Continued

Area	2050	2060	2070
Metropolitan			
Adams	22,694,937	40,623,937	72,716,847
Arapahoe	8,716,619	14,120,923	22,875,895
Boulder	734,562	947,585	1,222,385
Denver	4,885,790	6,302,669	8,130,443
Jefferson	26,587,970	48,124,226	87,104,849
	16,327,476	22,450,280	30,869,135
Irrigated Plains			
Larimer	343,737	422,796	520,039
Logan	11,633	10,935	10,279
Morgan	32,877	34,521	36,247
Weld	122,225	129,558	137,331
	348,382	377,994	410,123
Mountain			
Clear Creek	798	694	604
Gilpin	2	1	1
Park	11	6	3
	193	134	93
Dry Plains			
Douglas	4,949	4,964	4,979
Elbert	622	510	418
Sedgwick	2,938	2,820	2,707
Washington	2,566	2,309	2,078
Cheyenne	127,450	161,862	205,565
Deuel	1,626	1,512	1,406
Keith	3,082	2,774	2,497
Kimball	17,321	18,880	20,579
Laramie	1,411,974	2,005,003	2,847,104
	465,999	545,219	637,906
South Platte River Basin	4,621,700	5,361,172	6,218,960
Colorado	7,779,548	9,179,867	10,832,243
Nebraska	1,502,423	1,512,940	1,523,531
Wyoming	1,245,275	1,443,274	1,672,755

TABLE a-24

GEOMETRIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, & COUNTIES BASED ON 1930-1960 RATE OF CHANGE

Area	1930-60 Rate of Change	1960	1970	1980	1990
Metropolitan					
Adams	+165 %	120,296	318,784	844,778	2,238,662
Arapahoe	+134	113,426	265,417	621,076	1,453,318
Boulder	+ 43	74,254	106,183	151,842	217,134
Denver	+ 24	493,887	612,420	759,401	941,657
Jefferson	+162	127,520	334,102	875,347	2,293,409
	+ 47	929,383	1,366,193	2,008,304	2,952,207
Irrigated Plains					
Larimer	+ 20 %	53,343	64,012	76,814	92,177
Logan	+ 0.6	20,424	20,547	20,670	20,794
Morgan	+ 5	21,192	22,252	23,365	24,533
Weld	+ 4	72,344	75,238	78,248	81,378
	+ 7	167,181	178,884	191,406	204,804
Mountain					
Clear Creek	+ 10 %	2,793	3,072	3,379	3,717
Gilpin	- 14	685	589	507	436
Park	- 4	1,822	1,749	1,679	1,612
	- 0.7%	5,300	5,337	5,374	5,412
Dry Plains					
Douglas	+ 13 %	4,816	5,442	6,149	6,948
Elbert	- 15	3,708	3,152	2,679	2,277
Sedgwick	- 8	4,242	3,903	3,591	3,304
Washington	- 10	6,625	5,962	5,366	4,829
Cheyenne	+ 15	14,828	17,052	19,610	22,552
Deuel	- 7	3,125	2,906	2,703	2,514
Keith	+ 6	7,958	8,435	8,941	9,477
Kimball	+ 24	7,975	9,889	12,262	15,205
Laramie	+ 41	60,149	84,810	119,582	168,611
	+ 15 %	113,426	130,440	150,006	172,507
South Platte River Basin	+ 34 %	1,215,290	1,628,489	2,182,175	2,924,114
Colorado	+ 23 %	1,753,947	2,157,355	2,653,547	3,263,863
Nebraska	+ 0.8%	1,411,000	1,422,288	1,433,666	1,445,135
Wyoming	+ 11 %	330,000	366,300	406,593	451,318

TABLE a-24 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	5,932,454	15,721,003	41,660,658	110,400,744	292,561,972
Arapahoe	3,400,764	7,957,788	18,621,224	43,573,664	101,962,374
Boulder	310,502	444,018	634,946	907,973	1,298,401
Denver	1,167,655	1,447,892	1,795,386	2,226,279	2,760,586
Jefferson	6,008,732	15,742,878	41,246,340	108,065,411	283,131,377
	4,339,744	6,379,424	9,377,753	13,785,297	20,264,387
Irrigated Plains					
Larimer	110,612	132,734	159,281	191,137	229,364
Logan	20,919	21,045	21,171	21,298	21,426
Morgan	25,760	27,048	28,400	29,820	31,311
Weld	84,633	88,018	91,539	95,201	99,009
	219,140	234,480	250,894	268,457	287,249
Mountain					
Clear Creek	4,089	4,498	4,948	5,443	5,987
Gilpin	375	322	277	238	205
Park	1,548	1,486	1,427	1,370	1,315
	5,450	5,488	5,526	5,565	5,604
Dry Plains					
Douglas	7,851	8,872	10,025	11,328	12,801
Elbert	1,935	1,645	1,398	1,188	1,010
Sedgwick	3,040	2,797	2,573	2,367	2,177
Washington	4,346	3,911	3,520	3,168	2,851
Cheyenne	25,935	29,825	34,299	39,444	45,361
Deuel	2,338	2,174	2,022	1,880	1,748
Keith	10,046	10,649	11,288	11,965	12,683
Kimball	18,854	23,379	28,990	35,948	44,576
Laramie	237,742	335,216	472,655	666,444	939,686
	198,383	228,140	262,361	301,715	346,972
South Platte River Basin	3,918,313	5,250,539	7,035,722	9,427,867	12,633,342
Colorado	4,014,551	4,938,898	6,074,845	7,472,059	9,190,633
Nebraska	1,456,696	1,468,350	1,480,097	1,491,938	1,503,874
Wyoming	500,963	556,069	617,237	685,133	760,498

TABLE a-24 Continued

Area	2050	2060	2070
Metropolitan			
Adams	775,289,226	2,054,516,449	5,444,468,590
Arapahoe	238,591,955	558,305,175	1,306,434,110
Boulder	1,856,713	2,655,100	3,796,793
Denver	3,423,127	4,244,677	5,263,399
Jefferson	741,804,208	1,943,527,025	5,092,040,806
	29,788,649	43,789,314	64,370,292
Irrigated Plains			
Larimer	275,237	330,284	396,341
Logan	21,555	21,684	21,814
Morgan	32,877	34,521	36,247
Weld	102,969	107,088	111,372
	307,356	328,811	351,892
Mountain			
Clear Creek	6,586	7,245	7,970
Gilpin	176	151	130
Park	1,262	1,212	1,164
	5,643	5,682	5,722
Dry Plains			
Douglas	14,465	16,345	18,470
Elbert	858	729	620
Sedgwick	2,003	1,843	1,696
Washington	2,566	2,309	2,078
Cheyenne	52,165	59,990	68,988
Deuel	1,626	1,512	1,406
Keith	13,444	14,251	15,106
Kimball	55,274	68,540	84,990
Laramie	1,324,957	1,868,189	2,634,146
	399,018	458,871	527,702
South Platte River Basin	16,928,678	22,684,429	30,397,135
Colorado	11,304,479	13,904,509	17,102,546
Nebraska	1,515,905	1,528,032	1,540,256
Wyoming	844,153	937,010	1,040,081

TABLE a-25

GEOMETRIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, & COUNTIES BASED ON 1940-1960 RATE OF CHANGE

Area	1940-60 Rate of Change	1960	1970	1980	1990
Metropolitan					
Adams	218%	120,296	382,541	1,216,480	3,868,406
Arapahoe	126	113,426	256,343	579,335	1,309,297
Boulder	49	74,254	110,638	164,851	245,628
Denver	26	493,887	622,298	784,095	987,960
Jefferson	158	127,520	329,002	848,825	2,189,969
	+ 54%	929,383	1,431,250	2,204,125	3,394,352
Irrigated Plains					
Larimer	25%	53,343	66,679	83,349	104,186
Logan	5	20,302	21,317	22,383	23,502
Morgan	12	21,192	23,735	26,583	29,773
Weld	6	72,344	76,685	81,286	86,163
	12%	167,181	187,243	209,712	234,877
Mountain					
Clear Creek	- 13%	2,793	2,430	2,114	1,839
Gilpin	- 29	685	486	345	245
Park	- 22	1,822	1,603	1,411	1,242
	- 20%	5,300	4,240	3,392	2,714
Dry Plains					
Douglas	+ 19%	4,816	5,731	6,820	8,116
Elbert	- 16	3,708	3,115	2,617	2,198
Sedgwick	- 10	4,242	3,818	3,436	3,092
Washington	- 10	6,625	5,962	5,366	4,829
Cheyenne	28	14,828	18,980	24,294	31,096
Deuel	- 6	3,125	2,938	2,762	2,596
Keith	- 2	7,958	7,799	7,643	7,490
Kimball	52	7,975	12,122	18,425	28,006
Laramie	40	60,149	84,209	117,893	165,050
	+ 20%	113,426	136,111	163,333	196,000
South Platte River Basin	+ 40%	1,215,290	1,701,406	2,381,968	3,334,755
Colorado	+ 28%	1,753,947	2,245,052	2,873,667	3,678,294
Nebraska	+ 4%	1,411,000	1,467,440	1,526,138	1,587,184
Wyoming	+ 10%	330,000	363,000	399,300	439,230

TABLE a-25 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	12,301,531	39,118,869	124,398,003	395,585,650	1,257,962,367
Arapahoe	2,959,011	6,687,365	15,113,445	34,156,386	77,193,432
Boulder	365,986	545,319	812,525	1,210,662	1,803,886
Denver	1,244,830	1,568,486	1,976,292	2,490,128	3,137,561
Jefferson	5,650,120	14,577,310	37,609,460	97,032,407	250,343,610
	5,227,302	8,050,045	12,397,069	19,091,486	29,400,888
Irrigated Plns.					
Larimer	130,232	162,790	203,488	254,360	317,950
Logan	24,677	25,911	27,207	28,567	29,995
Morgan	33,346	37,348	41,830	46,850	52,472
Weld	91,333	96,813	102,622	108,779	115,306
	263,062	294,629	329,984	369,582	413,932
Mountain					
Clear Creek	1,600	1,392	1,211	1,054	917
Gilpin	174	124	88	62	44
Park	1,093	962	847	745	656
	2,171	1,737	1,390	1,112	890
Dry Plains					
Douglas	9,658	11,493	13,677	16,276	19,368
Elbert	1,846	1,551	1,303	1,095	920
Sedgwick	2,783	2,505	2,254	2,029	1,826
Washington	4,346	3,911	3,520	3,168	2,851
Cheyenne	39,803	50,948	65,213	83,473	99,433
Deuel	2,440	2,294	2,156	2,027	1,905
Keith	7,340	7,193	7,049	6,908	6,770
Kimball	42,569	64,705	98,352	149,495	227,232
Laramie	231,070	323,498	452,897	634,056	887,678
	235,200	282,240	338,688	406,426	487,711
South Platte River Basin	4,668,657	6,536,120	9,150,568	12,810,795	17,935,113
Colorado	4,708,216	6,026,516	7,713,940	9,873,843	12,639,519
Nebraska	1,650,671	1,716,698	1,785,366	1,856,781	1,931,052
Wyoming	483,153	531,468	584,615	643,076	707,384

TABLE a-25 Continued

Area	2050	2060	2070
Metropolitan			
Adams	4,000,320,327	12,721,018,640	40,452,839,275
Arapahoe	174,457,156	394,273,173	891,057,371
Boulder	2,687,790	4,004,807	5,967,162
Denver	3,953,327	4,981,192	6,276,302
Jefferson	645,886,514	1,666,387,206	4,299,278,991
	45,277,368	69,727,147	107,379,806
Irrigated Plains			
Larimer	397,438	496,798	620,998
Logan	31,495	33,070	34,724
Morgan	58,769	65,821	73,720
Weld	122,224	129,557	137,330
	463,604	519,236	581,544
Mountain			
Clear Creek	798	694	604
Gilpin	31	22	16
Park	577	508	447
	712	570	456
Dry Plains			
Douglas	23,048	27,427	32,638
Elbert	773	649	545
Sedgwick	1,643	1,479	1,331
Washington	2,566	2,309	2,078
Cheyenne	127,274	162,911	208,526
Deuel	1,791	1,684	1,583
Keith	6,635	6,502	6,372
Kimball	345,393	524,997	797,995
Laramie	1,242,749	1,739,849	2,435,789
	585,253	702,304	842,765
South Platte River Basin	25,109,158	35,152,821	49,213,949
Colorado	16,177,304	20,706,949	26,504,895
Nebraska	2,008,294	2,088,626	2,172,171
Wyoming	778,122	855,934	941,527

TABLE a-26

GEOMETRIC PROJECTION OF POPULATION OF THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, & COUNTIES BASED ON 1950-1960 RATE OF CHANGE

Area	1950-60 Rate of Change	1960	1970	1980	1990
Metropolitan					
Adams	+199 %	120,296	359,685	1,075,458	3,215,619
Arapahoe	+118	113,426	247,269	539,046	1,175,120
Boulder	+ 54	74,254	114,351	176,101	271,196
Denver	+ 19	493,887	587,726	699,394	832,279
Jefferson	+129	127,520	292,021	668,728	1,531,387
	+ 51.8%	929,383	1,410,803	2,141,599	3,250,947
Irrigated Plains					
Larimer	+ 22 %	53,343	65,078	79,395	96,862
Logan	+ 18	20,302	23,956	28,268	33,356
Morgan	+ 17	21,192	24,795	29,010	33,942
Weld	+ 7	72,344	77,408	82,827	88,625
	+ 14.3%	167,181	191,088	218,413	249,646
Mountain					
Clear Creek	- 15 %	2,793	2,374	2,018	1,715
Gilpin	- 19	685	555	450	365
Park	- 3	1,822	1,767	1,714	1,663
	- 11.8%	5,300	4,675	4,123	3,636
Dry Plains					
Douglas	+ 37 %	4,816	6,598	9,039	12,383
Elbert	- 17	3,708	3,078	2,555	2,121
Sedgwick	- 17	4,242	3,521	2,922	2,425
Washington	- 12	6,625	5,830	5,130	4,514
Cheyenne	+ 23	14,828	18,194	22,324	27,392
Deuel	- 6	3,125	2,938	2,762	2,596
Keith	+ 7	7,958	8,515	9,111	9,749
Kimball	+ 86	7,975	14,834	27,591	51,319
Laramie	+ 26	60,149	75,788	95,493	120,321
	+ 18.9%	113,426	134,864	160,353	190,660
South Platte River Basin	+ 41.3%	1,215,290	1,717,205	2,426,411	3,428,519
Colorado	+ 32.4%	1,753,947	2,322,226	3,074,627	4,070,806
Nebraska	+ 6.5%	1,411,000	1,502,715	1,600,391	1,704,416
Wyoming	+ 13.6%	330,000	374,880	425,864	483,782

TABLE a-26 Continued

Area	2000	2010	2020	2030	2040
Metropolitan					
Adams	9,614,701	28,747,956	85,956,388	257,009,600	768,458,704
Arapahoe	2,561,762	5,584,641	12,174,517	26,540,447	57,858,174
Boulder	417,642	643,169	990,480	1,525,339	2,349,022
Denver	990,412	1,178,590	1,402,522	1,669,001	1,986,111
Jefferson	3,506,876	8,030,746	18,390,408	42,114,034	98,731,138
	4,934,938	7,491,236	11,371,696	17,262,235	26,204,073
Irrigated Plains					
Larimer	118,172	144,170	175,887	214,582	261,790
Logan	39,360	46,445	54,805	64,670	76,311
Morgan	39,712	46,463	54,362	63,604	74,417
Weld	94,829	101,467	108,570	116,170	124,302
	285,345	326,149	372,788	426,097	487,029
Mountain					
Clear Creek	1,458	1,239	1,053	895	761
Gilpin	296	240	194	157	127
Park	1,613	1,565	1,518	1,472	1,427
	3,207	2,829	2,495	2,201	1,941
Dry Plains					
Douglas	16,965	23,242	31,842	43,624	59,765
Elbert	1,760	1,461	1,213	1,007	836
Sedgwick	2,013	1,671	1,387	1,151	955
Washington	3,972	3,495	3,076	2,707	2,382
Cheyenne	33,610	41,239	50,600	62,086	76,180
Deuel	2,440	2,294	2,156	2,027	1,905
Keith	10,431	11,161	11,942	12,778	13,672
Kimball	95,453	177,543	330,230	614,228	1,142,464
Laramie	151,604	191,021	240,686	303,264	382,113
	226,695	269,540	320,483	381,054	453,073
South Platte River Basin	4,844,497	6,845,274	9,672,372	13,667,062	19,311,559
Colorado	5,389,747	7,136,025	9,448,097	12,509,280	16,562,287
Nebraska	1,815,203	1,933,191	2,058,848	2,192,673	2,335,197
Wyoming	549,576	624,318	709,225	805,680	915,252

TABLE a-26 Continued

Area	2050	2060	2070
Metropolitan			
Adams	2,297,691,525	6,870,097,660	20,541,592,003
Arapahoe	126,130,819	274,965,185	599,424,103
Boulder	3,617,494	5,570,941	8,579,249
Denver	2,363,472	2,812,532	25,956,913
Jefferson	226,094,306	517,755,961	1,185,661,151
	39,777,783	60,382,675	91,660,901
Irrigated Plns.			
Larimer	319,384	389,648	475,371
Logan	90,047	106,255	125,381
Morgan	87,068	101,870	119,188
Weld	133,003	142,313	152,275
	556,674	636,278	727,266
Mountain			
Clear Creek	647	549	467
Gilpin	103	83	67
Park	1,384	1,342	1,302
	1,712	1,510	1,332
Dry Plains			
Douglas	81,878	112,173	153,677
Elbert	694	576	478
Sedgwick	793	658	546
Washington	2,096	1,844	1,623
Cheyenne	93,473	114,691	140,726
Deuel	1,791	1,684	1,583
Keith	14,629	15,653	16,749
Kimball	2,124,983	3,952,468	7,351,590
Laramie	481,462	606,642	764,369
	538,704	640,519	761,577
South Platte River Basin	27,315,493	38,596,792	54,537,267
Colorado	21,928,468	29,033,292	38,440,079
Nebraska	2,486,985	2,648,639	2,820,800
Wyoming	1,039,726	1,181,129	1,341,762

TABLE a-27

POPULATION PROJECTIONS FOR THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS DERIVED BY THE RATIO METHOD

Source of Colorado Projection	1970							
	Proj. Pop. of Colo.	Metro. .590	Irr. Plns. .092	Dry Plns. (Colo.) .007	Mtn. .003	SPRB .725	Dry Plns (Nebr.) .030	Dry Plns. (Wyo.) .237
Balestra & Rao[a]	2,286,800	1,349,212	210,386	16,008	6,860	1,621,680	44,235	89,230
Peterson (High)	2,277,000	1,343,430	209,484	15,939	6,831	1,650,825		
(Low)	2,044,000	1,205,960	188,048	14,308	6,132	1,481,900		
Senate Select Committee on Natural Water Resources								
Migration (High	2,440,900	1,440,131	224,563	24,409	7,323	1,769,652	52,590	89,396
Assumption (Middle	2,277,000	1,343,430	209,484	15,939	6,831	1,650,825	49,059	83,400
I (Low	2,211,000	1,304,490	203,412	15,477	6,633	1,602,975	47,637	80,983
Migration (High	2,263,400	1,335,406	208,233	15,844	6,790	1,640,965	52,590	88,306
Assumption (Middle	2,111,400	1,245,726	194,249	14,780	6,334	1,530,765	49,059	85,747
II (Low	2,050,000	1,209,500	188,600	14,350	6,150	1,486,250	47,637	80,438
Bureau of Census								
Series II-1	2,347,000	1,384,730	215,924	16,429	7,041	1,701,575	50,250	87,690
II-2	2,179,000	1,285,610	200,468	15,253	6,537	1,579,775	50,670	92,667
IV-1	2,230,000	1,315,700	205,160	15,610	6,690	1,616,750	47,670	82,713
IV-2	2,065,000	1,218,350	189,980	14,455	6,195	1,497,125	48,060	87,453
Outdoor Recreation Resources Review Committee								
Judgement Projection	2,580,000	1,522,200	237,360	18,060	7,740		51,570	93,141
Nat'l. Plan. Asso.	2,470,000	1,457,300	227,240	17,290	7,410		50,310	91,956

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[a] For more complete reference to these sources see Appendix A, sources of projections for use in Ratio Method.

TABLE a-27--Continued

Source of Colorado Projection	1980							
	Proj. Pop. of Colo.	Metro. .590	Irr. Plns. .092	Dry Plns. (Colo.) .007	Mtn. .003	SPRB .725	Dry Plns. (Nebr.) .030	Dry Plns. (Wyo.) .237
Balestra & Rao[a]	2,830,000	1,811,200	251,870	8,490	2,830	2,136,650	50,833	114,596
Peterson (High)	2,753,000	1,761,920	245,017	8,259	2,753	2,078,515		
(Low)	2,351,000	1,504,640	209,239	7,053	2,351	1,775,005		
Senate Select Committee on Natural Water Resources								
Migration (High	3,164,000	2,024,960	281,596	9,492	3,164	2,388,820	66,874	125,997
Assumption (Middle	2,779,300	1,778,752	247,358	8,338	2,779	2,098,372	58,730	110,672
I (Low	2,563,900	1,640,896	228,187	7,692	2,564	1,935,744	54,179	102,074
Migration (High	2,914,800	1,865,472	259,417	8,744	2,915	2,200,674	69,623	133,420
Assumption (Middle	2,559,900	1,638,336	227,831	7,680	2,560	1,932,724	61,146	117,160
II (Low	2,361,500	1,511,360	210,174	7,084	2,362	1,782,932	56,404	108.182
Bureau of Census								
Series II-1	2,958,000	1,893,120	263,262	8,874	2,958	2,233,290	62,601	117,747
II-2	2,709,000	1,733,760	241,101	8,127	2,709	2,045,295	65,010	126,291
IV-1	2,643,000	1,691,520	235,227	7,929	2,643	1,995,465	55,275	103,863
IV-2	2,412,000	1,543,680	214,668	7,236	2,412	1,821,060	57,585	111,606
Outdoor Recreation Resources Review Committee Judgment Projection								
Nat'l. Pln. Assoc.								

[a] For more complete reference to these sources see Appendix A, sources of projections for use in Ratio Method.

TABLE a-27--Continued

Source of Colorado Projection	2000							
	Proj. Pop. of Colo.	Metro. .590	Irr. Plns. .092	Dry Plns. (Colo.) .007	Mtn. .003	SPRB .725	Dry Plns. (Nebr.) .030	Dry Plns. (Wyo.) .237
Balestra & Rao[a]							114,596	
Peterson (High)								
(Low)								
Senate Select Committee on Natural Water Resources								
Migration (High	5,083,400	3,812,550	427,006	15,250	3,813	4,142,971	125,997	123,035
Assumption (Middle	3,885,700	2,914,275	326,399	11,657	2,914	3,166,846	110,672	94,046
I (Low	3,147,100	2,360,325	264,356	9,441	2,360	2,564,886	102,074	76,171
Migration (High	4,609,400	3,457,054	387,189	13,828	3,457	3,756,661	133,420	132,082
Assumption (Middle	3,523,500	2,642,700	295,974	10,570	2,643	2,871,652	117,160	100,964
II (Low	2,853,700	2,140,275	239,711	8,561	2,140	2,325,766	108,182	81,770
Bureau of Census								
Series II-1	4,482,000	3,361,500	376,488	13,446	3,361	3,652,830	117,747	108,696
II-2	4,059,000	3,044,250	340,956	12,177	3,044	3,308,085	126,291	116,424
IV-1	3,471,000	2,805,750	291,564	10,413	2,603	2,828,865	103,863	82,404
IV-2	3,130,000	2,347,500	262,920	9,390	2,347	2,550,950	111,606	88,872
Outdoor Recreation Resources Review Committee								
Joint Projection	4,101,000	3,075,750	344,984	12,303	3,076	3,342,315		99,456
Nat'l. Plan. Assoc.								

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[a] For more complete reference to these sources see Appendix A, sources of projections for use in Ratio Method.

TABLE a-28

POPULATION PROJECTIONS BY COMPONENTS FOR THE SOUTH PLATTE RIVER BASIN AND SUBREGIONS

Area	Minimum Projections			Maximum Projections		
	1970			1970		
	Natural Increase	Migration	Total Population	Natural Increase	Migration	Total Population
Metropolitan	127,325	220,264	1,276,972	195,170	285,321	1,409,874
Irrig. Plns.	23,573	-9,362	181,392	29,925	-6,186	190,920
Mountain	254	-1,887	3,667	313	-938	4,675
Dry Plains	18,262	794	132,482	25,975	-4,537	134,864
SPRB	170,141	172,571	1,558,002	250,350	250,350	1,715,990
	1980			1980		
Metropolitan	174,945	302,642	1,754,559	296,074	432,831	2,138,779
Irrig. Plns.	25,576	-10,158	196,810	34,175	-7,064	218,031
Mountain	176	-1,305	2,538	276	-827	4,124
Dry Plains	21,330	927	154,739	30,884	-5,395	160,353
SPRB	218,120	221,236	1,997,358	353,494	353,494	2,422,978
	1990			1990		
Metropolitan	240,375	415,830	2,410,764	449,144	656,605	3,244,528
Irrig. Plns.	27,750	-11,021	213,539	39,028	-8,067	248,992
Mountain	122	-904	1,756	243	-730	3,637
Dry Plains	24,913	1,083	180,735	36,721	-6,414	190,660
SPRB	279,630	283,625	2,560,613	499,133	499,133	3,421,244
	2000			2000		
Metropolitan	330,275	571,351	3,312,390	681,351	996,070	4,921,949
Irrig. Plns.	29,25[illegible]	-11,958	230,836	44,570	-9,213	284,349
Mountain	84	-625	1,215	215	-644	3,208
Dry Plains	29,098	1,265	211,098	43,661	-7,626	226,695
SPRB	358,486	363,607	3,282,706	704,776	704,776	4,830,796

Source: Tables a-13, a-14, a-16

TABLE a-28--Continued

Area	Minimum Projections			Maximum Projections		
	2010			2010		
	Natural Increase	Migration	Total Population	Natural Increase	Migration	Total Population
Metro.	453,797	785,036	4,551,223	1,033,609	1,511,038	7,466,596
Irr. Plns.	32,548	-12,927	250,457	50,898	-10,521	324,726
Mtn.	58	-433	840	189	-568	2,829
Dry Plns.	33,987	1,478	246,563	51,913	-9,068	269,540
SPRB	459,579	466,144	4,208,429	995,144	995,144	6,821,084
	2020			2020		
Metro.	623,518	1,078,640	6,253,381	1,567,985	2,292,245	11,326,826
Irr. Plns.	35,314	-14,026	271,745	58,126	-12,015	370,837
Mtn.	40	299	581	167	-501	2,161
Dry Plns.	39,697	1,726	287,986	61,725	-10,782	320,483
SPRB	589,180	597,597	5,395,206	1,405,143	1,405,143	9,631,370
	2030			2030		
Metro.	856,713	1,482,051	8,592,145	2,378,622	3,477,336	17,182,795
Irr. Plns.	38,316	-15,218	294,843	66,380	-13,721	423,496
Mtn.	28	-207	402	127	-382	1,906
Dry Plns.	46,366	2,016	336,368	73,391	-12,819	381,055
SPRB	755,329	766,119	6,916,654	1,984,062	1,984,062	13,599,494
	2040			2040		
Metro.	1,177,124	2,036,338	11,805,607	3,608,387	5,275,118	26,066,300
Irr. Plns.	41,573	-16,511	319,905	75,806	-15,669	483,633
Mtn.	19	-143	278	112	-337	1,681
Dry Plns.	54,155	2,355	392,878	87,262	-15,242	453,075
SPRB	968,332	982,165	8,867,151	2,801,496	2,801,496	19,202,486

Source: Tables a-13, a-14, a-16

TABLE a-28--Continued

Area	Minimum Projections			Maximum Projections		
	2050			2050		
	Natural Increase	Migration	Total Population	Natural Increase	Migration	Total Population
Metro.	1,617,368	2,797,929	16,220,904	5,473,923	8,002,354	39,542,577
Irr. Plns.	45,107	-17,915	347,097	86,570	-17,894	552,309
Mtn.	13	-99	192	99	-298	1,482
Dry Plns.	63,253	2,750	458,881	103,754	-18,123	538,706
SPRB	1,241,401	1,259,135	11,367,687	3,955,712	3,955,712	27,113,910
	2060			2060		
Metro.	2,222,264	3,844,354	22,287,522	8,303,941	12,139,571	59,986,089
Irr. Plns.	48,941	-19,437	376,601	98,863	-20,435	630,737
Mtn.	9	-68	133	87	-262	1,307
Dry Plns.	73,880	3,212	535,973	123,364	-21,548	640,522
SPRB	1,591,476	1,614,212	14,573,375	5,585,465	5,585,465	38,284,840
	2070			2070		
Metro.	3,053,391	5,282,143	30,623,056	12,597,079	18,415,729	90,998,897
Irr. Plns.	53,101	-21,090	408,612	112,902	-23,337	720,302
Mtn.	6	-47	92	77	-231	1,153
Dry Plns.	86,292	3,752	626,017	146,680	-25,621	761,581
SPRB	2,040,272	2,069,419	18,683,066	7,886,677	7,886,677	54,058,194

Source: Tables a-13, a-14, a-16

TABLE a-29

A COMPARISON OF POPULATION PROJECTIONS TO 2070 BY VARIOUS METHODS

South Platte River Basin

Type of Projection	1970	1980	1990	2000
Geometric 1940-50	1,409,736	1,635,294	1,896,941	2,200,452
1930-60	1,628,489	2,182,175	2,924,114	3,918,313
1940-60	1,701,406	2,381,968	3,334,755	4,668,657
1950-60	1,717,205	2,426,411	3,428,519	4,844,497
Arithmetic 1940-50	1,404,815	1,594,340	1,783,865	1,973,390
1930-60	1,418,869	1,622,448	1,826,027	2,029,606
1940-60	1,487,772	1,760,254	2,032,736	2,305,218
1950-60	1,570,530	1,925,970	2,281,410	2,636,850
Component Min. (1940-50)	1,558,002	1,997,358	2,560,613	3,282,706
Max. (1950-60)	1,715,990	2,422,978	3,421,244	4,830,796
Ratio B & R	1,621,680	2,136,650		
Peterson High	1,650,825	2,078,515		
Low	1,481,900	1,775,005		
Senate I High	1,769,652	2,388,820		5,083,400
Mid	1,650,825	2,098,372		3,885,700
Low	1,602,975	1,925,744		3,147,100
II High	1,640,965	2,200,674		4,609,400
Mid	1,530,765	1,932,724		3,523,500
Low	1,486,250	1,782,932		2,853,700
Census II-1	1,701,575	2,233,290		4,482,000
-2	1,579,775	2,045,295		4,059,000
IV-1	1,616,750	1,995,465		3,471,000
-2	1,497,125	1,821,060		3,130,000
ORRRC	1,909,200			4,101,000
NPA	1,827,800			
Maximum	1,909,200	2,426,411	3,428,519	5,083,400
Probable Max.	1,700,000	2,100,000	2,900,000	3,900,000
Judgement	1,600,200	2,020,300	2,505,400	3,115,700
Probable Min.	1,500,000	1,700,000	2,000,000	2,300,000
Minimum	1,404,815	1,594,340	1,783,865	1,973,390
Geometric High	1,717,205	2,426,411	3,428,519	4,844,497
Low	1,409,736	1,635,294	1,896,941	2,200,452
Arithmetic High	1,570,530	1,925,970	2,281,410	2,636,850
Low	1,404,815	1,594,340	1,783,865	1,973,390
Ratio High	1,909,200	2,388,820		5,083,400
Low	1,481,900	1,775,005		2,853,700

Source: Tables a-19 through a-28

TABLE a-29--Continued

South Platte River Basin--Continued

Type of Projection	2010	2020	2030	2040
Geometric 1940-50	2,552,524	2,960,928	3,434,676	3,984,224
1930-60	5,250,539	7,035,722	9,427,867	12,633,342
1940-60	6,536,120	9,150,568	12,810,795	17,935,113
1950-60	6,845,274	9,672,372	13,667,062	19,311,559
Arithmetic 1940-50	2,162,915	2,352,440	2,541,965	2,731,490
1930-60	2,233,185	2,436,764	2,640,343	2,843,922
1940-60	2,577,700	2,850,182	3,122,664	3,395,146
1950-60	2,992,290	3,347,730	3,703,170	4,058,610
Component Min. (1940-50)	4,208,429	5,395,206	6,916,654	8,867,151
Max. (1950-60)	6,821,084	9,631,370	13,599,494	19,202,486
Ratio B & R				
Peterson High				
Low				
Senate I High				
Mid				
Low				
II High				
Mid				
Low				
Census II-1				
-2				
IV-1				
-2				
ORRRC				
NPA				
Maximum	6,845,274	9,672,372	13,667,062	19,311,559
Probable Max.	5,000,000	7,000,000	9,000,000	12,000,000
Judgement	3,566,000	4,101,000	4,416,400	4,756,500
Probable Min.	2,900,000	3,300,000	3,700,000	4,000,000
Minimum	2,162,915	2,352,440	2,541,965	2,731,490
Geometric High	6,845,274	9,672,372	13,667,062	19,311,559
Low	2,552,524	2,960,928	3,434,676	3,984,224
Arithmetic High	2,992,290	3,347,730	3,703,170	4,058,610
Low	2,162,915	2,352,440	2,541,965	2,731,490
Ratio High				
Low				

Source: Tables a-19 through a-28

TABLE a-29--Continued

South Platte River Basin--Continued

Type of Projection	2050	2060	2070
Geometric 1940-50	4,621,700	5,361,172	6,218,960
1930-60	16,928,678	22,684,429	30,397,135
1940-60	25,109,158	35,152,821	49,213,949
1950-60	27,315,493	38,596,792	54,537,267
Arithmetic 1940-50	2,921,015	3,110,540	3,300,065
1930-60	3,047,501	3,251,080	3,454,659
1940-60	3,667,628	3,940,110	4,212,592
1950-60	4,414,050	4,769,490	5,124,930
Component Min. (1940-50)	11,367,687	14,573,375	18,683,066
Max. (1950-60)	27,113,910	38,284,840	54,058,194
Ratio B & R			
Peterson High			
Low			
Senate I High			
Mid			
Low			
II High			
Mid			
Low			
Census II-1			
-2			
IV-1			
-2			
ORRRC			
NPA			
Maximum	27,315,493	38,596,792	54,537,267
Probable Max.	15,000,000	20,000,000	30,000,000
Judgement	5,246,700	5,646,800	6,032,000
Probable Min.	4,400,000	4,700,000	5,000,000
Minimum	2,921,015	3,110,540	3,300,065
Geometric High	27,315,493	38,596,792	54,537,267
Low	4,621,700	5,361,172	6,218,960
Arithmetic High	4,414,050	4,769,490	5,125,930
Low	2,921,015	3,110,540	3,300,065
Ratio High			
Low			

Source: Tables a-19 through a-28

TABLE a-29--Continued

Metropolitan

Type of Projection	1970	1980	1990	2000
Geometric 1940-50	1,277,902	1,757,115	2,416,033	3,322,045
1930-60	1,366,193	2,008,304	2,952,207	4,339,744
1940-60	1,431,250	2,204,125	3,394,352	5,227,302
1950-60	1,410,803	2,141,599	3,250,947	4,934,938
Arithmetic 1940-50	1,096,305	1,263,227	1,430,149	1,597,071
1930-60	1,110,837	1,292,291	1,473,745	1,655,199
1940-60	1,171,473	1,413,563	1,655,653	1,897,743
1950-60	1,246,638	1,563,893	1,881,148	2,198,403
Component Min. (1940-50)	1,276,972	1,754,559	2,410,764	3,312,390
Max. (1950-60)	1,409,874	2,138,779	3,244,528	4,921,949
Ratio B & R	1,349,212	1,811,200		
Peterson High	1,343,430	1,761,920		
Low	1,205,960	1,504,640		
Senate I High	1,440,131	2,024,960		3,812,550
Mid	1,343,430	1,778,752		2,914,275
Low	1,304,490	1,640,896		2,360,325
II High	1,335,406	1,865,472		3,457,054
Mid	1,245,726	1,638,336		2,642,700
Low	1,209,500	1,511,360		2,140,275
Census II-1	1,384,730	1,893,120		3,361,500
-2	1,285,610	1,733,760		3,044,250
IV-1	1,315,700	1,691,520		2,805,750
-2	1,218,350	1,543,680		2,347,500
ORRRC	1,522,200			3,075,750
NPA	1,457,300			
Maximum	1,522,200	2,204,125	3,394,352	5,227,302
Probable Max.	1,400,000	1,800,000	2,400,000	3,300,000
Judgement	1,250,000	1,600,000	2,000,000	2,500,000
Probable Min.	1,200,000	1,500,000	1,800,000	2,200,000
Minimum	1,096,305	1,263,227	1,430,149	1,597,071
Geometric High	1,431,250	2,204,125	3,394,352	5,227,302
Low	1,277,902	1,757,115	2,416,033	3,322,045
Arithmetic High	1,246,638	1,563,893	1,881,148	2,198,403
Low	1,096,305	1,263,227	1,430,149	1,597,071
Ratio High	1,522,200	2,024,960		3,812,550
Low	1,205,960	1,504,640		2,140,275

Source: Tables a-19 through a-28

TABLE a-29--Continued

Metropolitan--Continued

Type of Projection	2010	2020	2030	2040
Geometric 1940-50	4,567,812	6,280,742	8,636,020	11,874,528
1930-60	6,379,424	9,377,753	13,785,297	20,264,387
1940-60	8,050,045	12,397,069	19,091,486	29,400,888
1950-60	7,491,236	11,371,696	17,262,235	26,204,073
Arithmetic 1940-50	1,763,993	1,930,915	2,097,837	2,264,759
1930-60	1,836,653	2,018,107	2,199,561	2,381,015
1940-60	2,139,833	2,381,923	2,624,013	2,866,103
1950-60	2,515,658	2,832,913	3,150,168	3,467,423
Component Min. (1940-50)	4,551,223	6,253,381	8,592,145	11,805,607
Max. (1950-60)	7,466,596	11,326,826	17,182,785	26,066,300
Ratio B & R				
Peterson High				
Low				
Senate I High				
Mid				
Low				
II High				
Mid				
Low				
Census II-1				
-2				
IV-1				
-2				
ORRRC				
NPA				
Maximum	8,050,045	12,397,069	19,091,486	29,400,888
Probable Max.	4,500,000	6,300,000	8,600,000	11,800,000
Judgement	2,850,000	3,300,000	3,550,000	3,800,000
Probable Min.	2,500,000	2,800,000	3,200,000	3,500,000
Minimum	1,763,993	1,930,915	2,097,837	2,264,759
Geometric High	8,050,045	12,397,069	19,091,486	29,400,888
Low	4,567,812	6,280,742	8,636,020	11,874,528
Arithmetic High	2,515,658	2,832,913	3,150,168	3,467,423
Low	1,763,993	1,930,915	2,097,837	2,264,759
Ratio High				
Low				

Source: Tables a-19 through a-28

TABLE a-29--Continued

Metropolitan--Continued

Type of Projection	2050	2060	2070
Geometric 1940-50	16,327,476	22,450,280	30,869,135
1930-40	29,788,649	43,789,314	64,370,292
1940-60	45,277,368	69,727,147	107,379,806
1950-60	39,777,783	60,382,675	91,660,901
Arithmetic 1940-50	2,431,681	2,598,603	2,765,525
1930-60	2,562,469	2,743,923	2,925,377
1940-60	3,108,193	3,350,283	3,592,373
1950-60	3,784,678	4,101,933	4,419,188
Component Min. (1940-50)	16,220,904	22,286,522	30,623,056
Max. (1950-60)	39,542,577	59,986,089	90,998,899
Ratio B & R			
Peterson High			
Low			
Senate I High			
Mid			
Low			
II High			
Mid			
Low			
Census II-1			
-2			
IV-1			
-2			
ORRRC			
NPA			
Maximum	45,277,368	69,727,147	107,379,806
Probable Max.	16,300,000	22,400,000	30,800,000
Judgement	4,200,000	4,500,000	4,800,000
Probable Min.	3,800,000	4,100,000	4,400,000
Minimum	2,431,681	2,598,603	2,765,525
Geometric High	45,277,368	68,727,147	107,379,806
Low	16,327,476	22,450,280	30,869,135
Arithmetic High	3,784,698	4,101,933	4,419,188
Low	2,431,681	2,598,603	2,765,525
Ratio High			
Low			

Source: Tables a-19 through a-28

TABLE a-29--Continued

Irrigated Plains

Type of Projection	1970	1980	1990	2000
Geometric 1940-50	181,391	196,809	213,538	231,689
1930-60	178,884	191,406	204,804	219,140
1940-60	187,243	209,712	234,877	263,062
1950-60	191,088	218,413	249,646	285,345
Arithmetic 1940-50	178,630	190,079	201,528	212,977
1930-60	177,420	187,659	197,898	208,137
1940-60	183,336	199,491	215,646	231,801
1950-60	188,043	208,905	229,767	250,629
Component Min. (1940-50)	181,392	196,810	213,539	230,886
Max. (1950-60)	190,920	218,031	248,992	284,349
Ratio B & R	210,386	251,870		
Peterson High	209,484	245,017		
Low	188,048	209,239		
Senate I High	224,563	281,596		427,006
Mid	209,484	247,358		326,399
Low	203,412	228,187		264,356
II High	208,233	259,417		387,189
Mid	194,249	227,831		295,974
Low	188,600	210,174		239,711
Census II-1	215,924	263,262		376,488
-2	200,468	241,101		340,956
IV-1	205,160	235,227		291,564
-2	189,980	214,668		262,920
ORRRC	237,360			344,984
NPA	227,240			
Maximum	237,360	281,596	249,646	427,006
Probable Max.	210,000	250,000	320,000	370,000
Judgement	200,000	235,000	290,000	335,000
Probable Min.	185,000	210,000	230,000	250,000
Minimum	117,420	187,659	197,898	208,137
Geometric High	191,088	218,413	249,646	285,345
Low	178,884	191,406	204,904	219,140
Arithmetic High	188,043	208,905	229,767	250,629
Low	177,420	187,659	197,898	208,137
Ratio High	237,360	281,596		427,006
Low	188,048	209,239		179,783

Source: Tables a-19 through a-28

TABLE a-29--Continued

Irrigated Plains--Continued

Type of Projection	2010	2020	2030	2040
Geometric 1940-50	251,383	272,751	295,935	321,089
1930-60	234,480	250,894	268,457	287,249
1940-60	294,629	329,984	369,582	413,932
1950-60	326,149	372,788	426,097	487,029
Arithmetic 1940-50	224,426	235,875	247,324	258,773
1930-60	218,376	228,615	238,854	249,093
1940-60	247,956	264,111	280,266	296,421
1950-60	271,491	292,353	313,215	334,077
Component Min. (1940-50)	250,457	271,743	294,843	319,905
Max. (1950-60)	324,726	370,837	423,496	483,633
Ratio B & R				
Peterson High				
Low				
Senate I High				
Mid				
Low				
II High				
Mid				
Low				
Census II-1				
-2				
IV-1				
-2				
ORRRC				
NPA				
Maximum	326,149	372,788	426,097	487,029
Probable Max.	425,000	470,000	520,000	575,000
Judgement	385,000	435,000	460,000	500,000
Probable Min.	270,000	290,000	310,000	330,000
Minimum	218,376	228,615	238,854	249,093
Geometric High	326,149	372,788	426,097	487,029
Low	234,480	250,894	268,457	287,249
Arithmetic High	271,491	292,353	313,215	334,077
Low	218,376	228,615	238,854	249,093
Ratio High				
Low				

Source: Tables a-19 through a-28

TABLE a-29--Continued

Irrigated Plains--Continued

Type of Projection	2050	2060	2070
Geometric 1940-50	348,382	377,994	410,123
1930-60	307,356	328,811	351,892
1940-60	463,604	519,236	581,544
1950-60	556,674	636,278	727,266
Arithmetic 1940-50	270,222	281,671	293,120
1930-60	259,332	269,571	279,810
1940-60	312,576	328,731	344,886
1950-60	354,939	375,801	396,663
Component Min. (1940-50)	347,097	376,601	408,612
Max. (1950-60)	552,309	630,737	720,302
Ratio B & R			
Peterson High			
Low			
Senate I High			
Mid			
Low			
II High			
Mid			
Low			
Census II-1			
-2			
IV-1			
-2			
ORRC			
NPA			
Maximum	556,674	636,278	727,266
Probable Max.	610,000	660,000	700,000
Judgement	550,000	610,000	650,000
Probable Min.	350,000	375,000	400,000
Minimum	259,332	269,571	279,810
Geometric High	556,674	636,278	727,266
Low	307,356	328,811	351,892
Arithmetic High	354,939	375,801	396,663
Low	259,332	269,571	279,810
Ratio High			
Low			

Source: Tables 2-19 through a-28

TABLE a-29--Continued

Dry Plains

Type of Projection	1970	1980	1990	2000
Geometric 1940-50	132,708	155,268	181,664	212,547
1930-60	130,440	150,006	172,507	198,383
1940-60	136,111	163,333	196,000	235,200
1950-60	134,864	160,353	190,660	226,695
Arithmetic 1940-50	127,262	141,098	154,934	168,770
1930-60	125,344	137,262	149,180	161,098
1940-60	129,354	145,282	161,210	177,138
1950-60	131,448	149,470	167,492	185,514
Component Min. (1940-50)	132,482	154,739	180,735	211,098
Max. (1950-60)	134,863	160,353	190,660	226,695
Ratio B & R	149,473	173,919		
Peterson High				
Low				
Senate I High	166,395	202,363		383,639
Mid	148,398	177,740		293,236
Low	144,097	163,945		237,501
II High	156,740	211,787		405,669
Mid	149,586	185,986		310,088
Low	142,425	171,670		251,165
Census II-1	154,369	189,222		333,862
-2	158,590	199,428		359,751
IV-1	145,993	167,067		253,282
-2	149,968	176,427		274,807
ORRRC	162,771			305,389
NPA	159,556			
Maximum	166,395	211,787	180,735	405,669
Probable Max.	150,000	190,000	225,000	300,000
Judgement	145,000	180,000	210,000	275,000
Probable Min.	135,000	150,000	170,000	195,000
Minimum	125,344	137,262	149,190	161,098
Geometric High	136,111	163,333	196,000	235,200
Low	130,440	150,006	172,507	198,383
Arithmetic High	131,448	149,470	167,492	185,514
Low	125,344	137,262	149,180	161,098
Ratio High	166,395	211,787		405,669
Low	142,425	163,945		237,501

Source: Tables a-19 through a-28

TABLE a-29--Continued

Dry Plains--Continued

Type of Projection	2010	2020	2030	2040
Geometric 1940-50	248,680	290,956	340,419	398,290
1930-60	228,140	262,361	301,715	346,972
1940-60	282,240	338,688	406,426	487,711
1950-60	269,540	320,483	281,054	453,073
Arithmetic 1940-50	182,606	196,442	210,278	224,114
1930-60	173,016	184,934	196,852	208,770
1940-60	193,066	208,994	224,922	240,850
1950-60	203,536	221,558	239,580	257,602
Component Min. (1940-50)	246,563	287,986	336,368	392,878
Max. (1950-60)	269,540	320,483	381,055	453,075
Ratio B & R				
Peterson High				
Low				
Senate I High				
Mid				
Low				
II High				
Mid				
Low				
Census II-1				
-2				
IV-1				
-2				
ORRRC				
NPA				
Maximum	282,240	338,688	406,426	487,711
Probable Max.	350,000	400,000	450,000	500,000
Judgement	325,000	360,000	400,000	450,000
Probable Min.	200,000	220,000	240,000	260,000
Minimum	173,016	184,934	196,852	208,770
Geomerric High	282,240	338,688	406,426	487,711
Low	228,140	262,361	301,715	346,972
Arithmetic High	203,536	221,558	239,580	257,602
Low	173,016	184,934	196,852	208,770
Ratio High				
Low				

Source: Tables 2-19 through a-28

TABLE a-29--Continued

Dry Plains--Continued

Type of Projection	2050	2060	2070
Geometric 1940-50	465,999	545,219	637,906
1930-60	399,018	458,871	527,702
1940-60	585,253	702,304	842,765
1950-60	528,704	640,519	761,577
Arithmetic 1940-50	237,950	251,786	265,622
1930-60	220,688	232,606	244,524
1940-60	256,778	262,706	288,634
1950-60	275,624	293,646	311,668
Component Min. (1940-50)	458,881	535,973	626,017
Max. (1950-60)	538,706	640,522	761,581
Ratio B & R			
Peterson High			
Low			
Senate I High			
Mid			
Low			
II High			
Mid			
Low			
Census II-1			
-2			
IV-1			
-2			
ORRRC			
NPA			
Maximum	585,253	702,304	842,765
Probable Max.	550,000	600,000	700,000
Judgement	490,000	530,000	575,000
Probable Min.	280,000	295,000	325,000
Minimum	220,688	232,606	244,524
Geometric High	585,253	702,304	842,765
Low	399,018	458,871	527,702
Arithmetic High	275,624	293,646	311,668
Low	220,688	232,606	244,524
Ratio High			
Low			

Source: Tables a-19 through a-28

TABLE a-29--Continued

Mountain						
Type of Projection	1970	1980	1990	2000	2010	2020
Geometric 1940-50	3,668	2,538	1,752	1,215	841	582
1930-60	5,337	5,374	5,412	5,450	5,488	5,526
1940-60	4,240	3,392	2,714	2,171	1,737	1,390
1950-60	4,675	4,123	3,636	3,207	2,829	2,495
Arithmetic 1940-50	2,628	0	0	0	0	0
1930-60	5,260	5,220	5,180	5,140	5,100	5,060
1940-60	3,609	1,918	227	0	0	0
1950-60	4,591	3,882	3,173	2,464	1,755	1,046
Component Min. (1940-50)	3,667	2,538	1,756	1,215	840	581
Max. (1950-60)	4,675	4,124	3,637	3,208	2,829	2,161
Ratio B & R	6,860	2,830				
Peterson High	6,831	2,753				
Low	6,132	2,351				
Senate I High	7,323	3,164		3,813		
Mid	6,831	2,779		2,914		
Low	6,633	2,564		2,360		
II High	6,790	2,915		3,457		
Mid	6,334	2,560		2,643		
Low	6,150	2,362		2,140		
Census II-1	7,041	2,958		3,361		
-2	6,537	2,709		3,044		
IV-1	6,690	2,643		2,603		
-2	6,195	2,412		2,347		
ORRRC	7,740			3,076		
NPA	7,410					
Maximum	7,410	5,374	5,412	5,450	5,488	5,526
Probable Max.	7,000	7,200	7,400	7,600	7,800	8,000
Judgement	5,200	5,300	5,400	5,700	6,000	6,200
Probable Min.	4,500	3,000	2,500	2,000	2,000	2,000
Minimum	3,609	0	0	0	0	0
Geometric High	5,337	5,374	5,412	5,450	5,488	5,526
Low	3,668	2,538	1,756	1,215	841	582
Arithmetic High	5,260	5,220	5,180	5,140	5,100	5,060
Low	3,609	1,918	227	0	0	0
Ratio High	7,740	3,164		3,813		
Low	6,150	2,351		2,140		

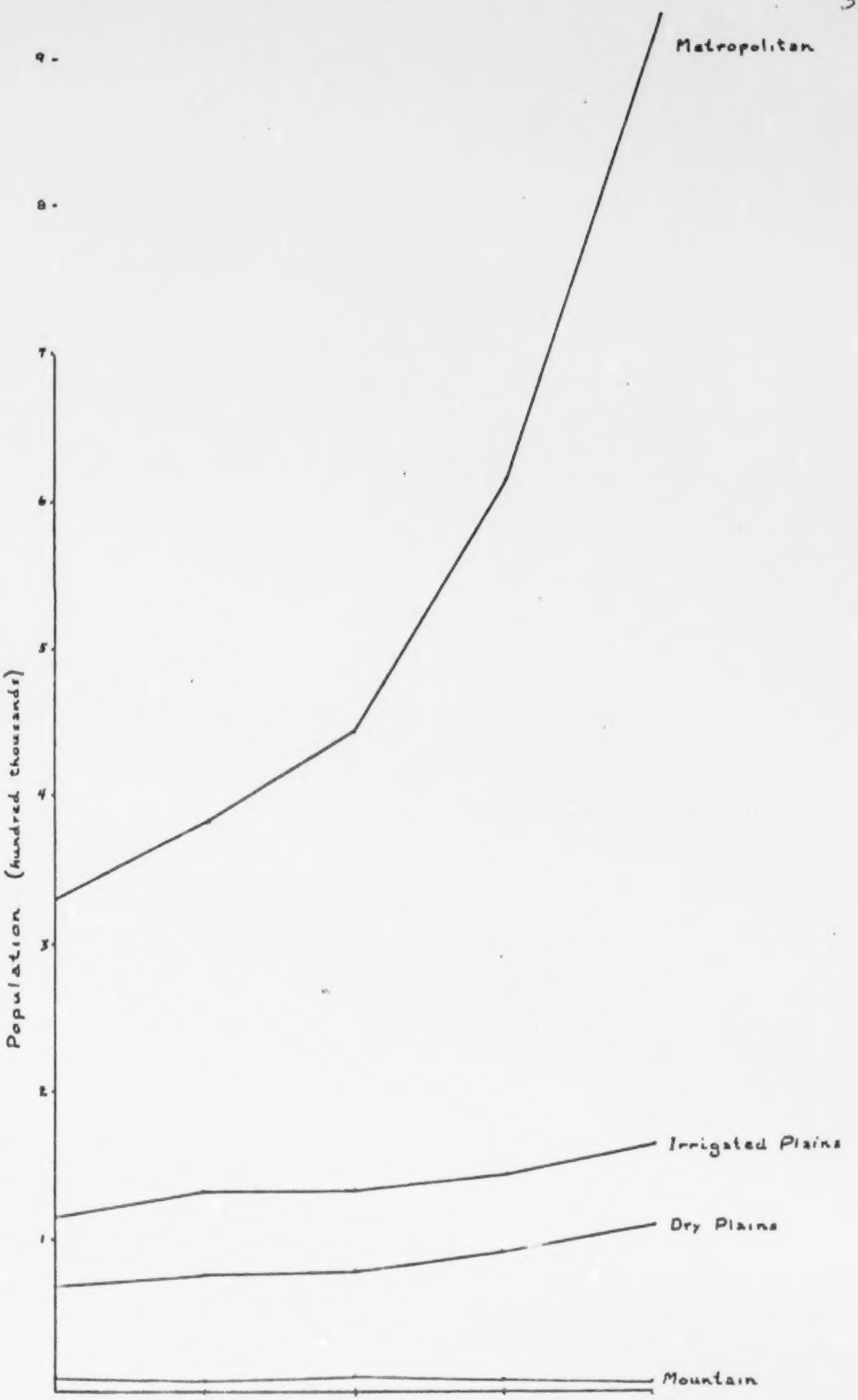
Source: Tables a-19 through a-28

TABLE a-29--Continued

Mountain--Continued

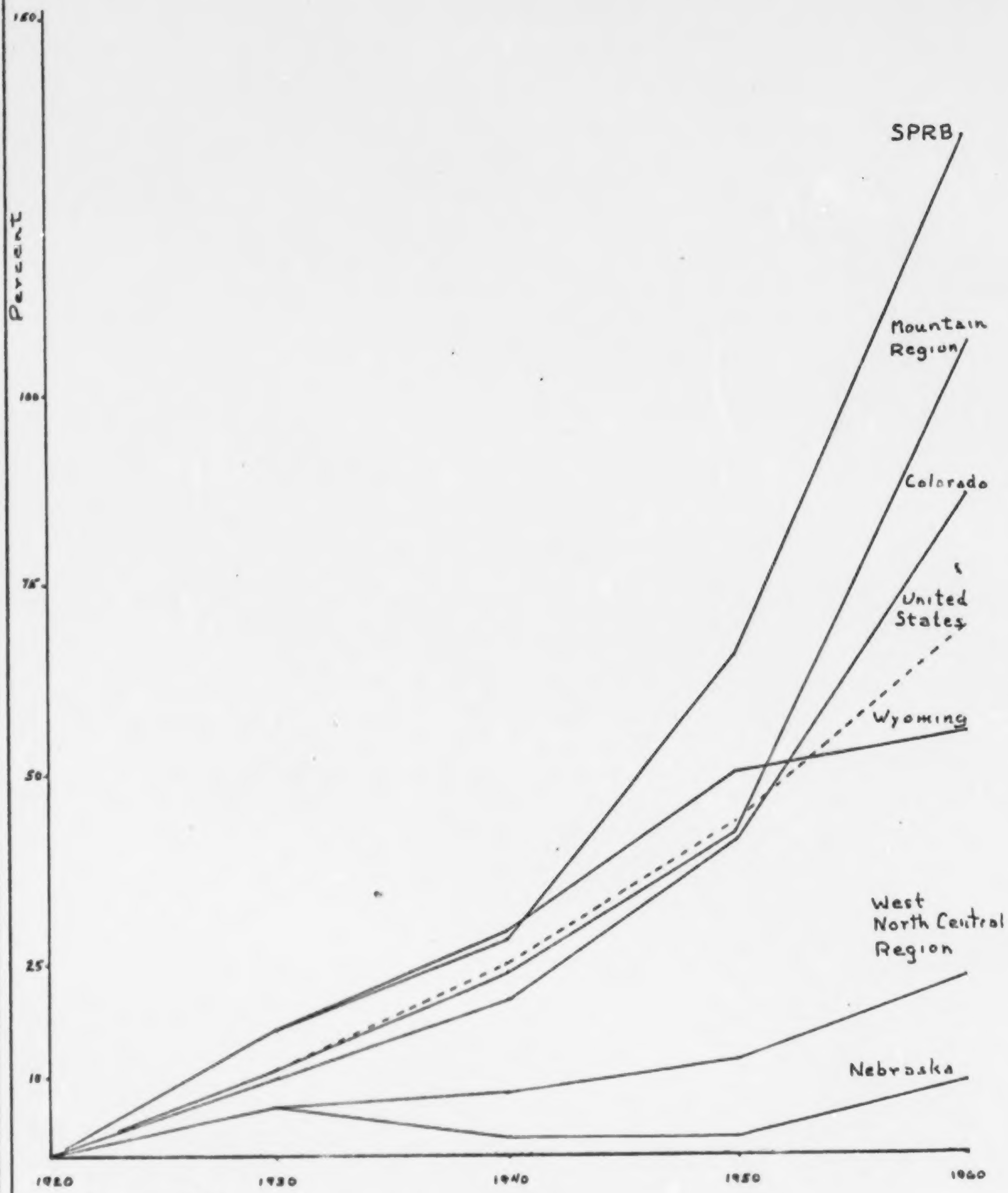
Type of Projection	2030	2040	2050	2060	2070
Geometric 1940-50	403	279	193	134	93
1930-60	5,565	5,604	5,643	5,682	5,722
1940-60	1,112	890	712	570	456
1950-60	2,201	1,941	1,712	1,510	1,332
Arithmetic 1940-50	0	0	0	0	0
1930-60	5,020	4,980	4,940	4,900	4,860
1940-60	0	0	0	0	0
1950-60	337	0	0	0	0
Component Min. (1940-50)	402	278	192	133	92
Max. (1950-60)	1,906	1,681	1,482	1,307	1,153
Ratio B & R					
Peterson High					
Low					
Senate I High					
Mid					
Low					
II High					
Mid					
Low					
Census II-1					
-2					
IV-1					
-2					
ORRRC					
NPA					
Maximum	5,565	5,604	5,643	5,682	5,722
Probable Max.	8,200	8,400	8,600	8,800	9,000
Judgement	6,400	6,500	6,700	6,800	7,000
Probable Min.	2,000	2,000	2,000	2,000	2,000
Minimum	0	0	0	0	0
Geometric High	5,565	5,604	5,643	5,682	5,722
Low	403	279	193	134	93
Arithmetic High	5,020	4,980	4,940	4,900	4,860
Low	0	0	0	0	0
Ratio High					
Low					

Source: Tables a-19 through a-28



Source: Table a-4

Chart a-1 --The Comparative Populations of The Subregions of The South Platte River Basin



Source: Table a-6

Chart a-2 --The Percentage Change in Population of The SPRB, Colorado, Nebraska, Wyoming, Mountain Region West North Central Region, United States, 1920-1960

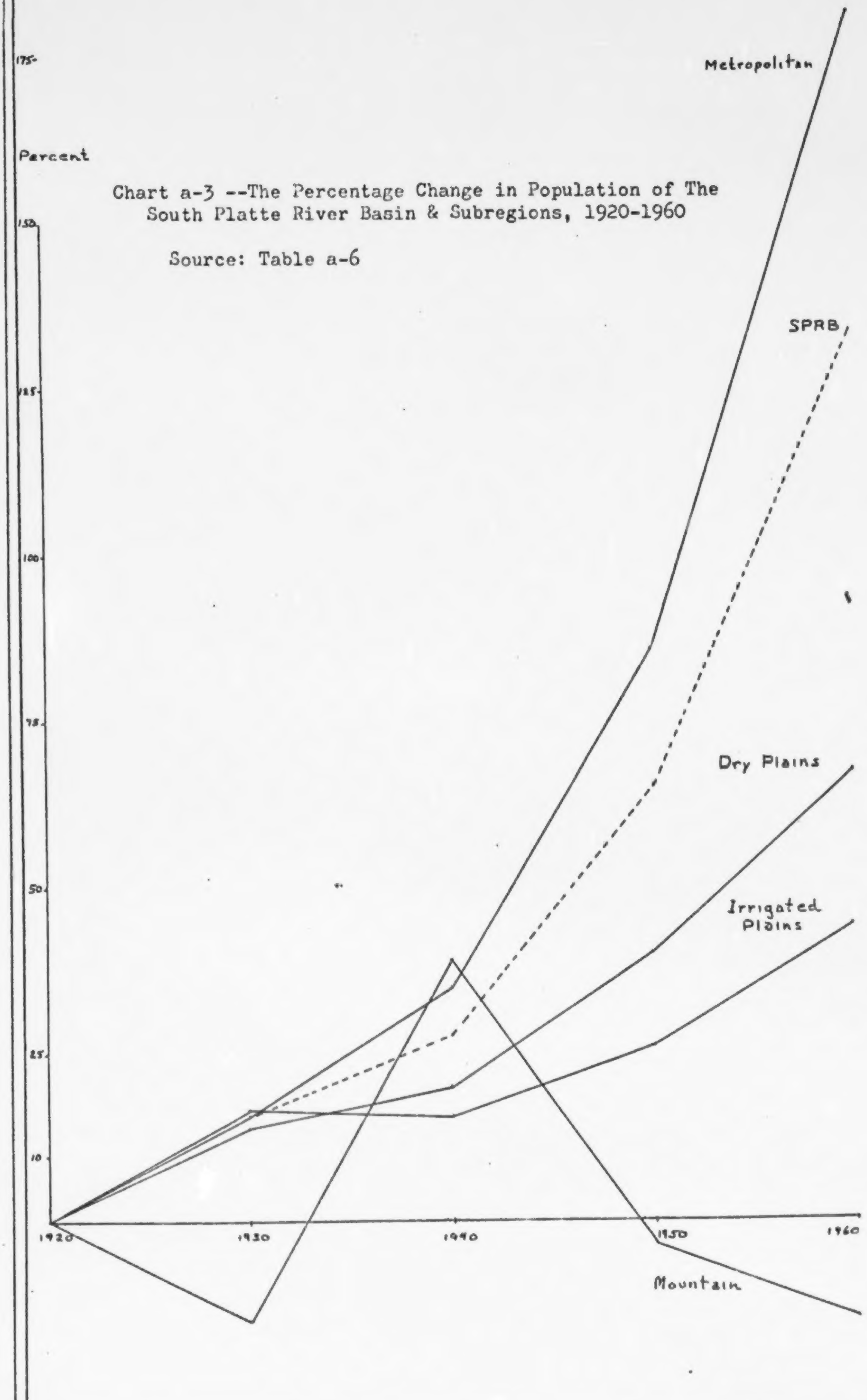


Chart a-3 --The Percentage Change in Population of The South Platte River Basin & Subregions, 1920-1960

Source: Table a-6

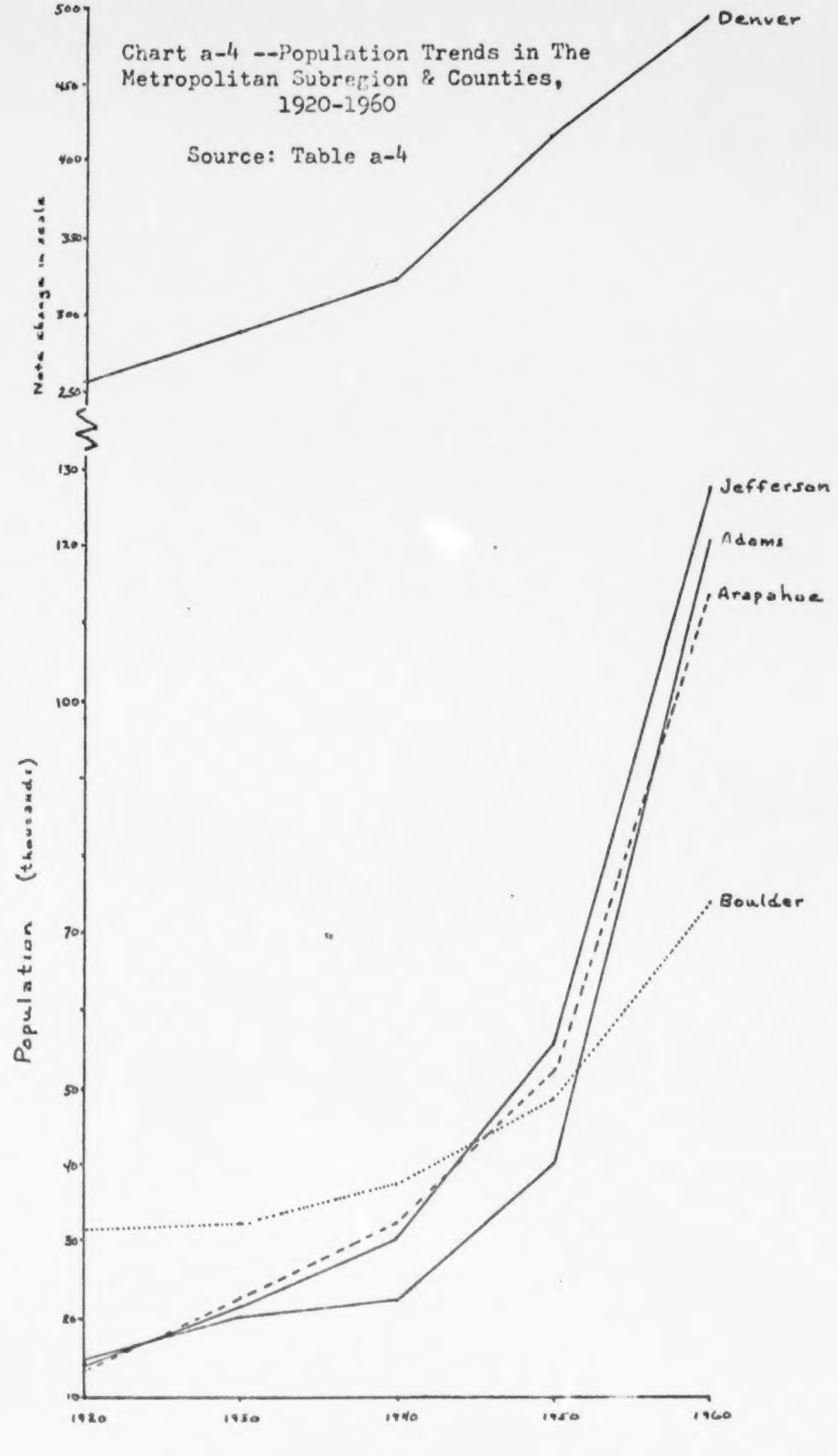
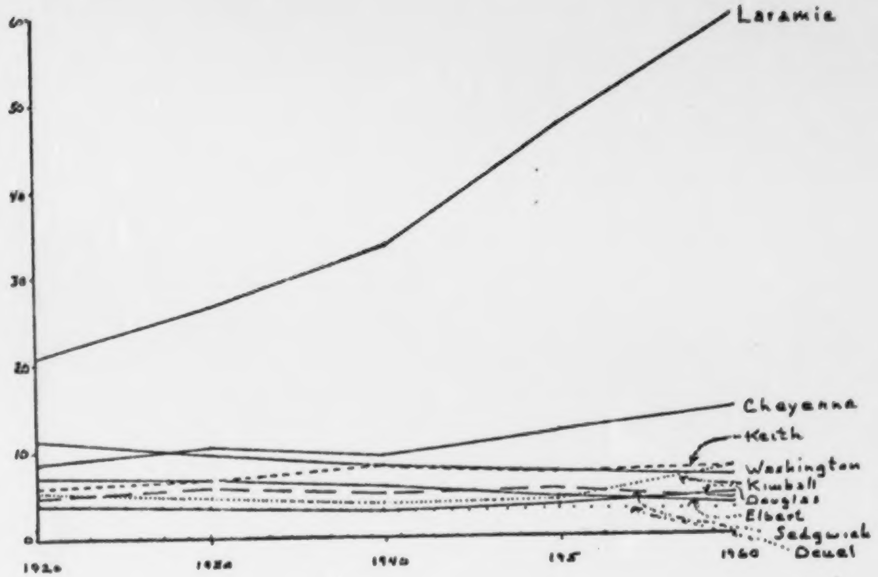
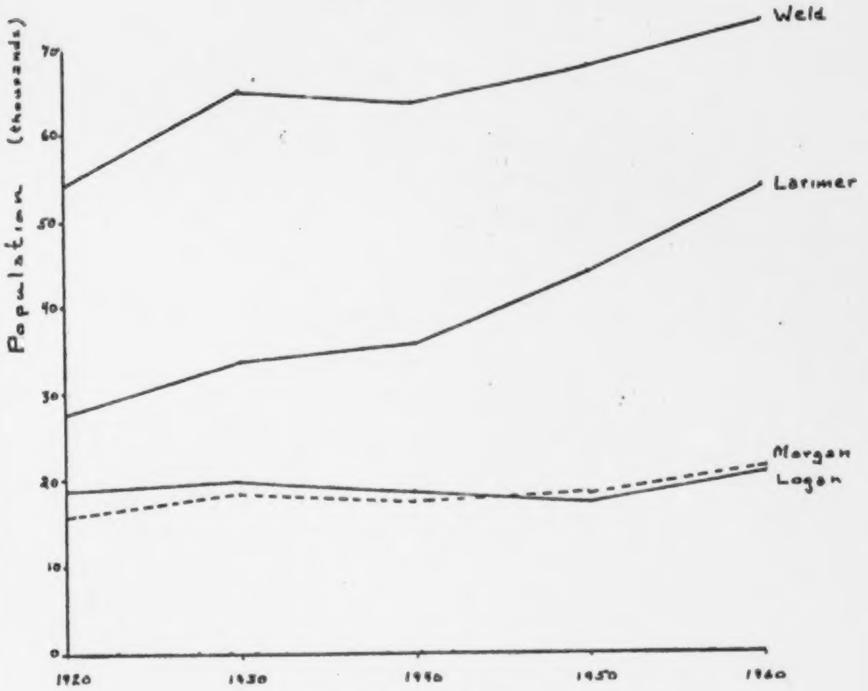


Chart a-4 --Population Trends in The Metropolitan Subregion & Counties, 1920-1960

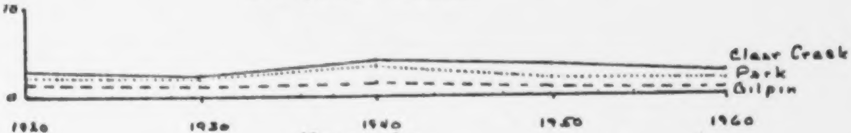
Source: Table a-4



Dry Plains



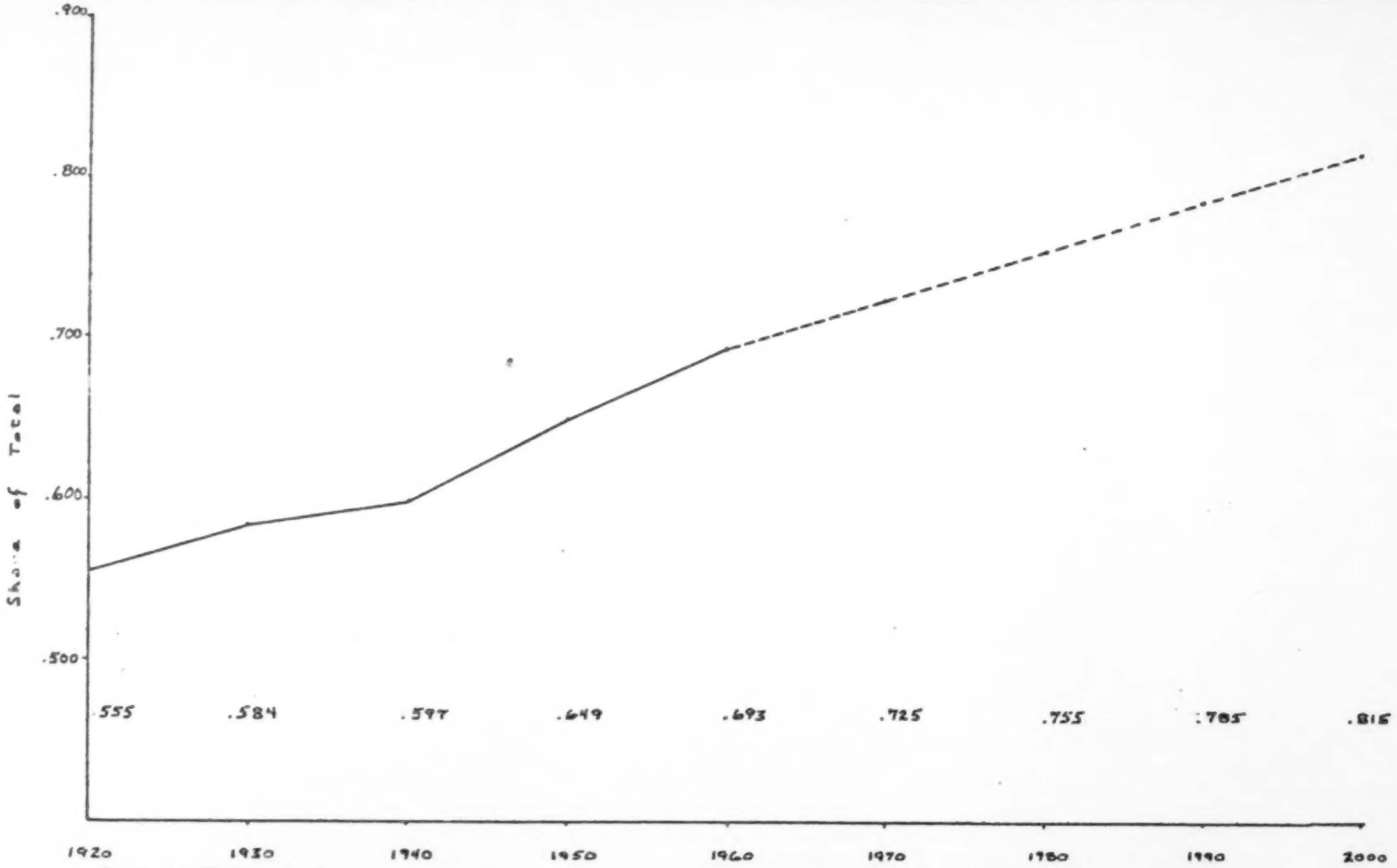
Irrigated Plains



Mountain

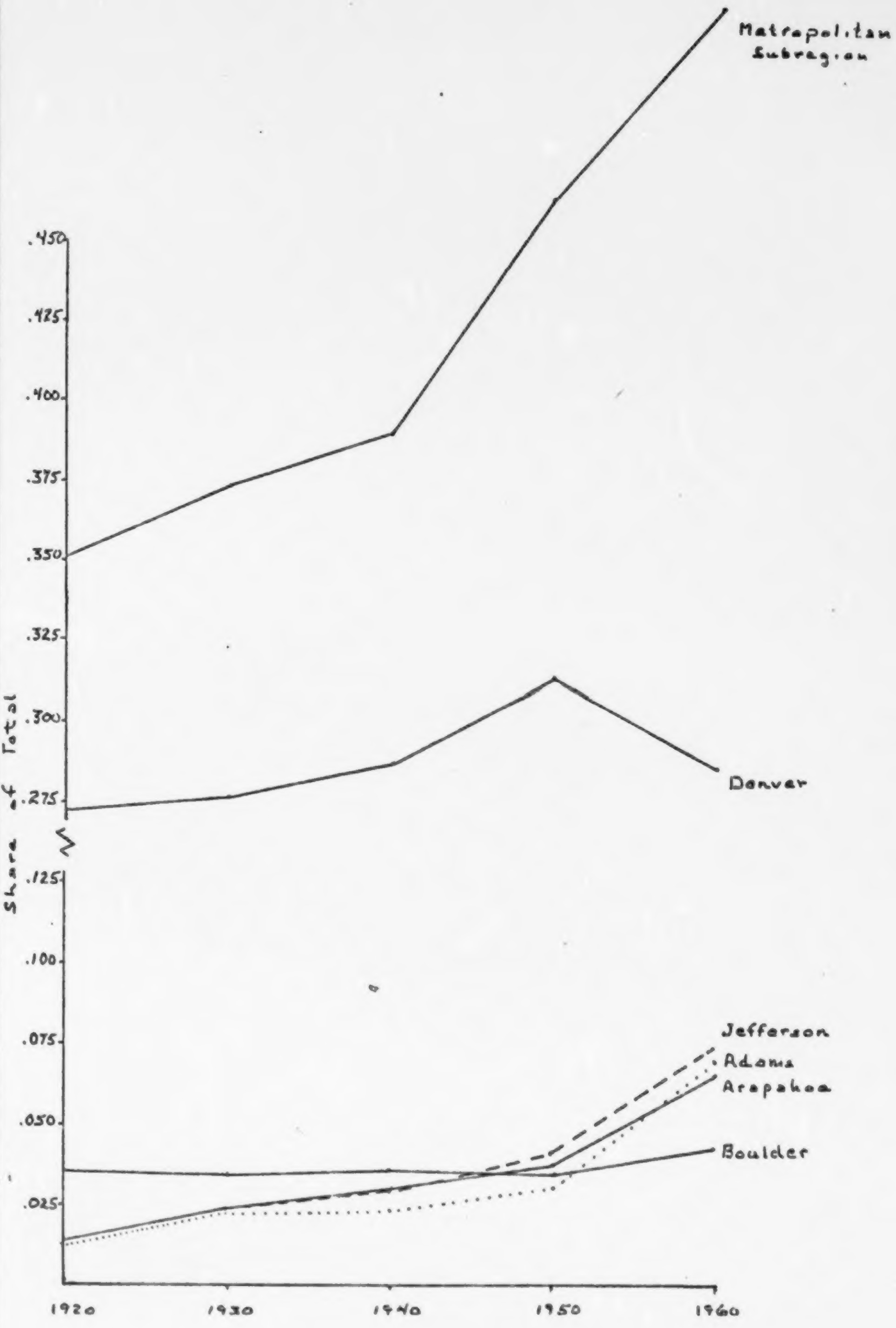
Source: Table a-4

Chart a-5 --Population Trends in The Dry Plains, Irrigated Plains & Mountain Subregions & Counties, 1920-1960



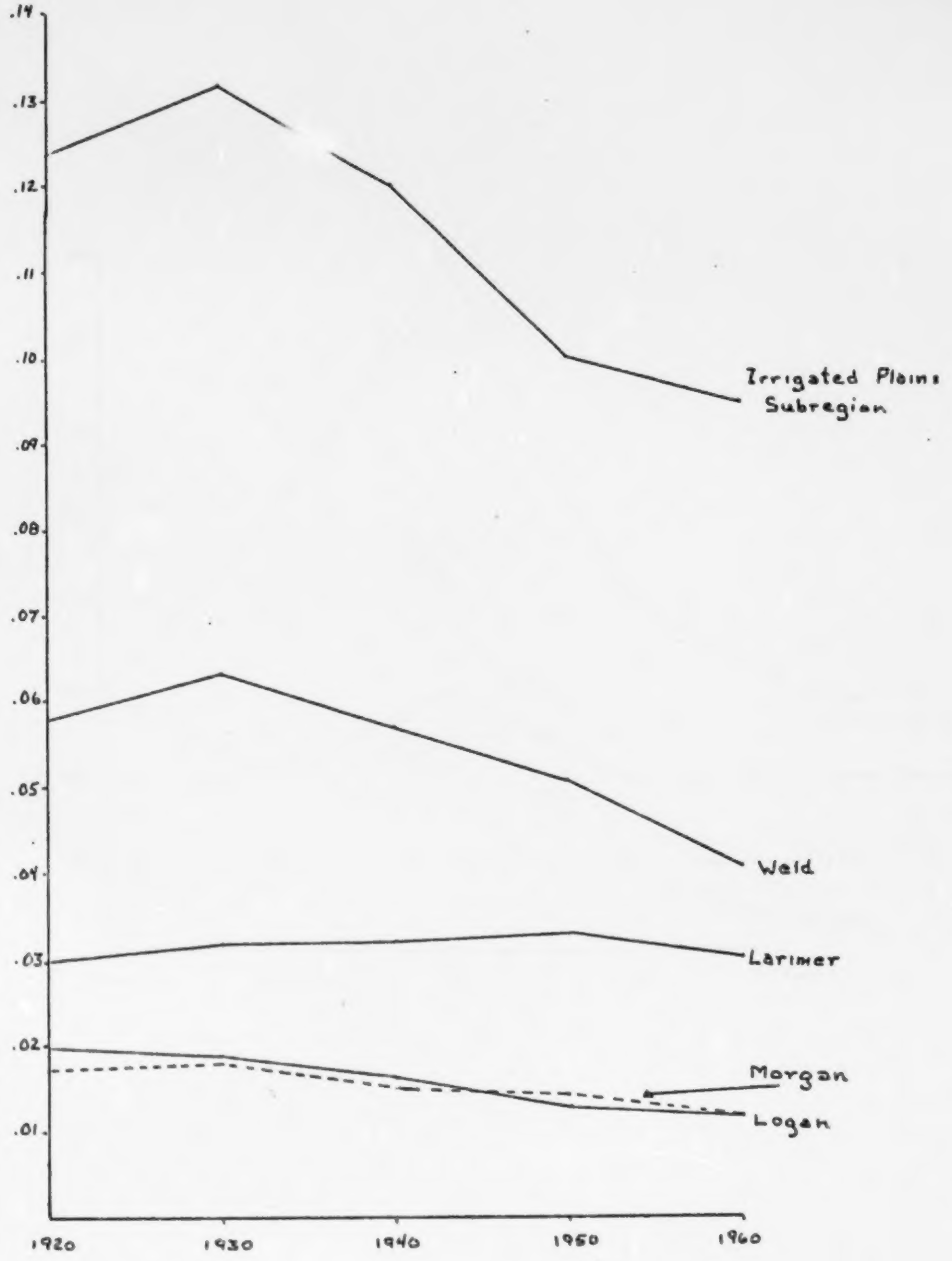
Source: Table a-9

Chart a-6 --The Ratio of South Platte River Basin Population To State of Colorado Population, 1920-1960 & Projections to 2000



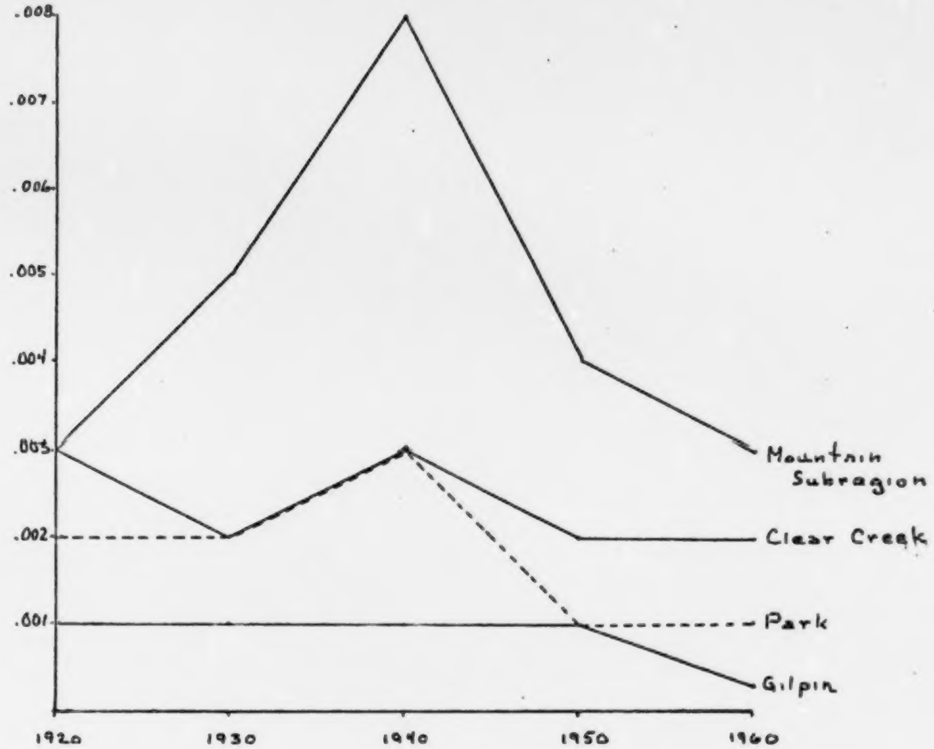
Source: Table a-9

Chart a-7 --The Ratio of Metropolitan Subregion & Counties Population to Total State Population, 1920-1960



Source: Table a-9

Chart a-8 --The Ratio of The Irrigated Plains Subregion And Counties Population to Total State Population, 1920-1960



Source: Table a-9

Chart a-9 --The Ratio of Mountain Subregion And Counties Population to Total State Population, 1920-1960

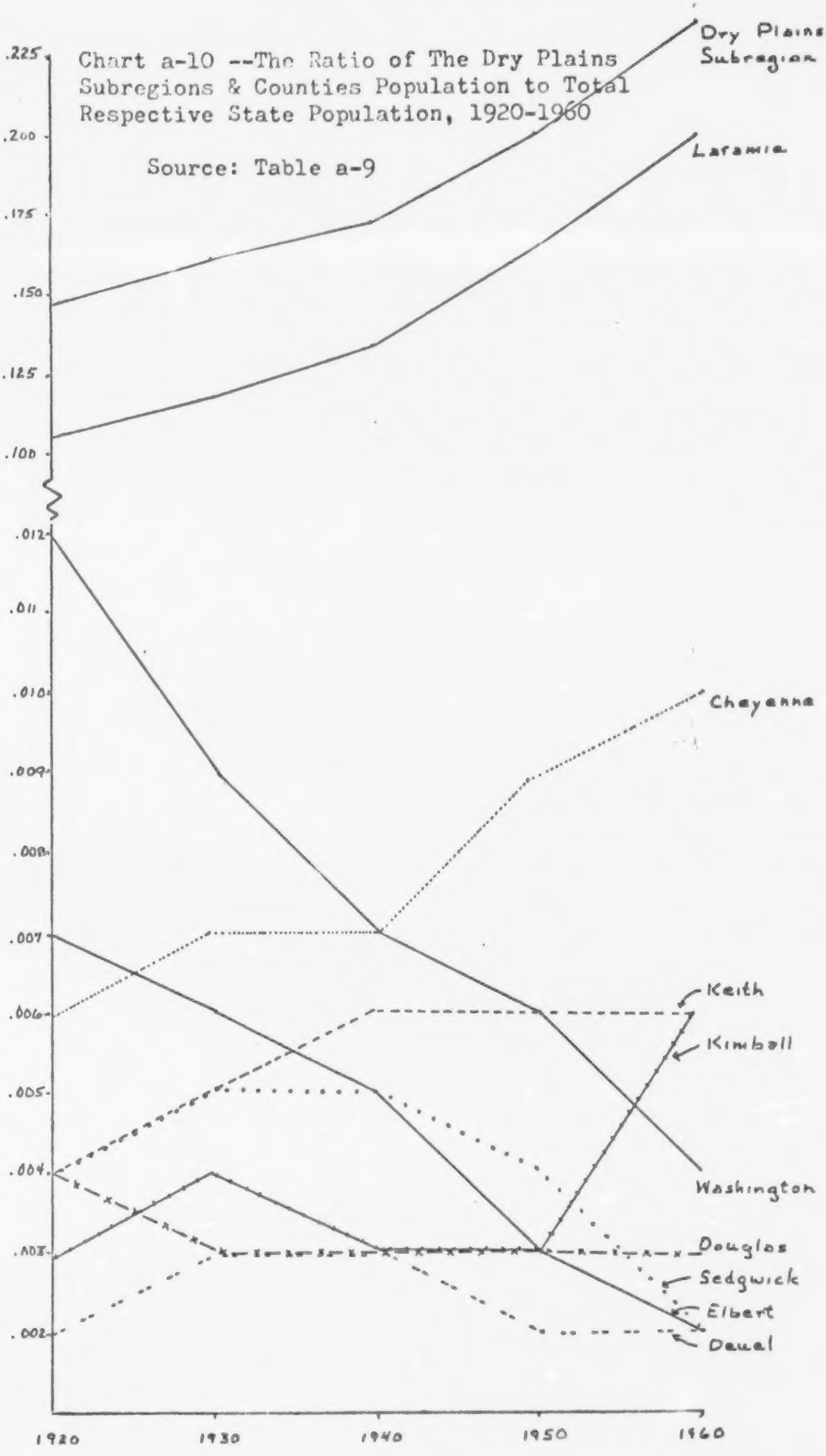
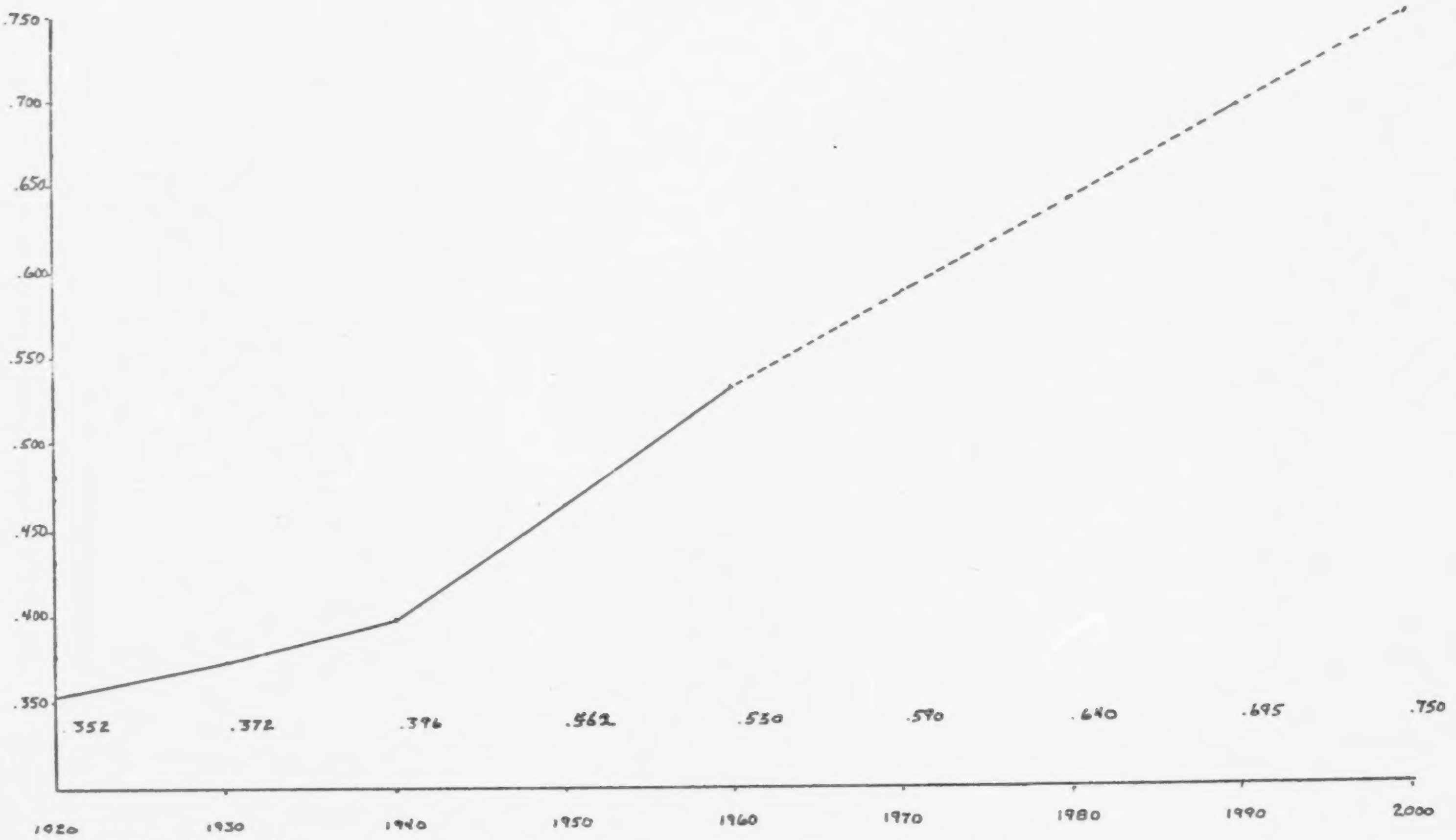


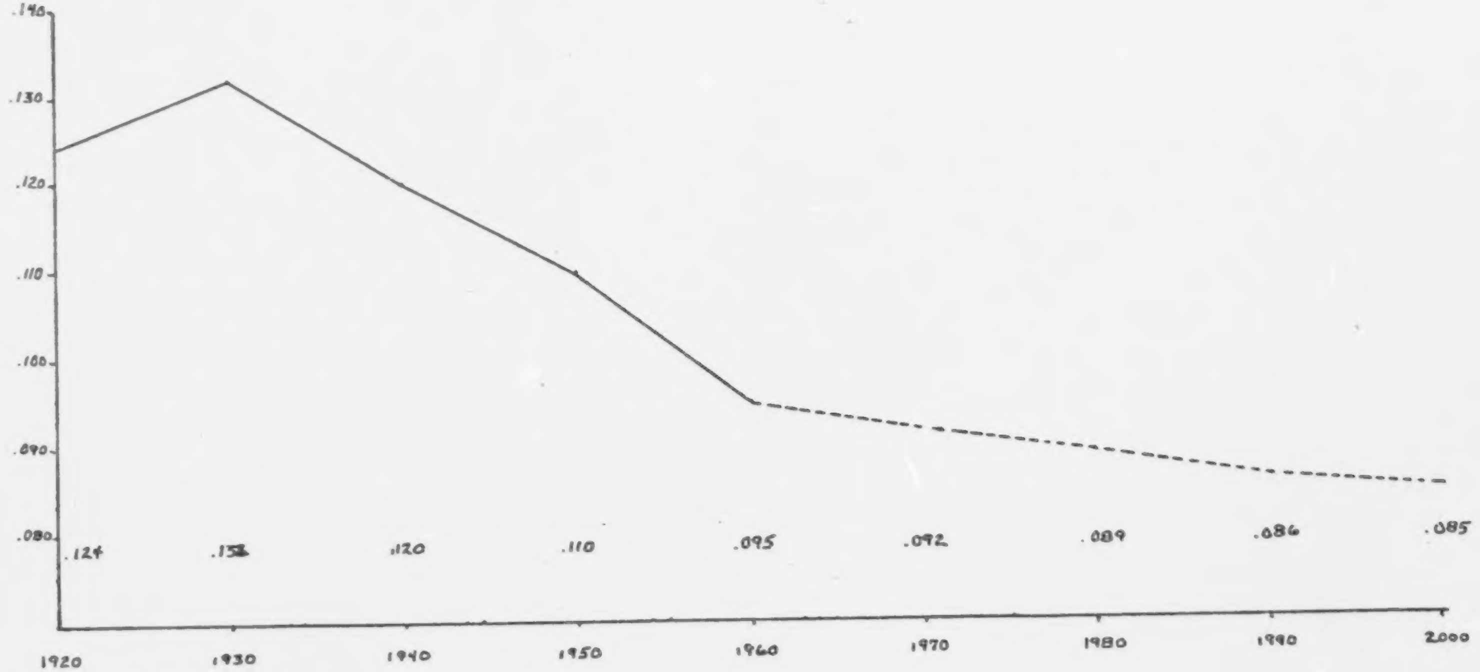
Chart a-10 --The Ratio of The Dry Plains Subregions & Counties Population to Total Respective State Population, 1920-1960

Source: Table a-9



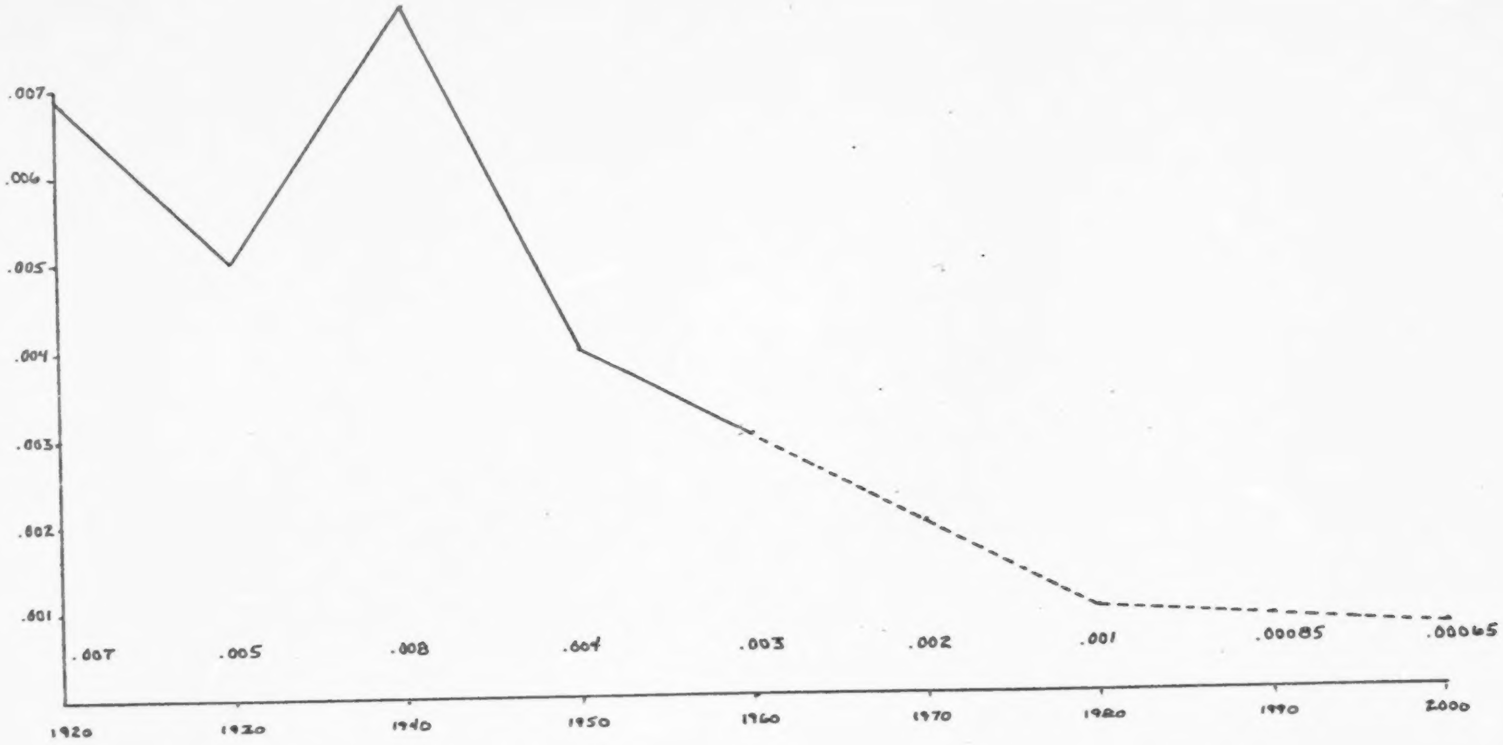
Source: Table a-9

Chart a-11 --The Ratio of Population of The Metropolitan Subregion to The State of Colorado, with Projections to 2000



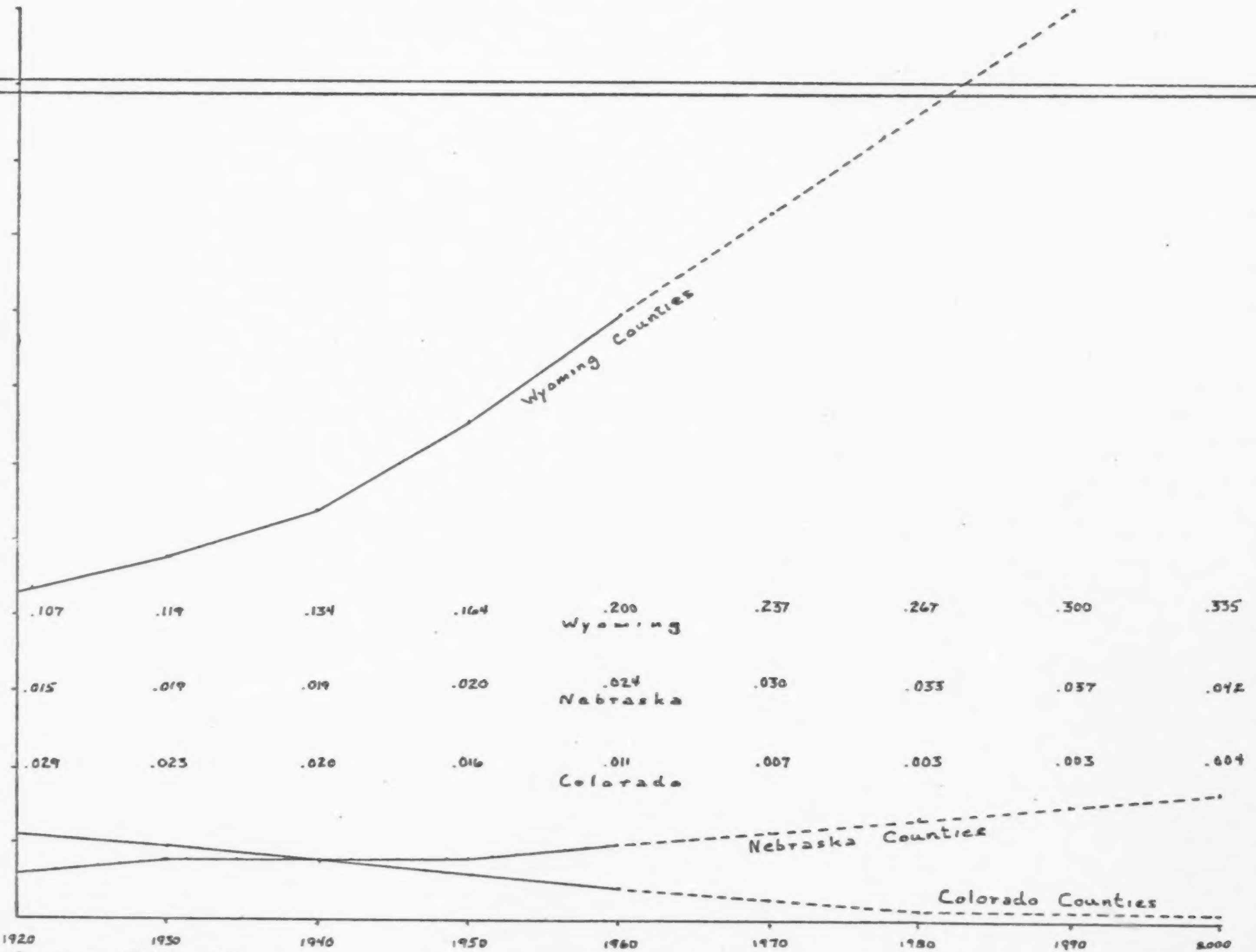
Source: Table a-9

Chart a-12 --The Ratio of Population of The Irrigated Plains Subregion to The State of Colorado, With Projections to 2000



Source: Table a-9

Chart a-13 --The Ratio of Population of The Mountain Subregion to State of Colorado, With Projections to 2000



Source: Table a-9

Chart a-14 --The Ratio of Population of The Dry Plains Subregion to The Respective States, With Projections to 2000

Appendix C

Basic Data on Employment by Industry Group in the South Platte River Basin

TABLE C-12

EMPLOYMENT IN THE SOUTH PLATTE RIVER BASIN, SUBREGIONS, COUNTIES & RELATED REGIONS BY INDUSTRY GROUP, 1940, 1950, 1960
(NUMBER OF EMPLOYEES)

	1940					
Industry Group	Adams	Arapahoe	Boulder	Denver	Jefferson	Metro. S/R
Agriculture, forestry and fishing	2,611	1,501	1,931	1,110	1,831	8,984
Mining	39	51	1,884	677	221	2,872
Construction	279	937	697	6,247	761	8,921
Manufacturing						
Durable	169	972	118	7,373	670	9,302
Non-durable	461	542	471	9,992	758	12,224
Trans., Comm., P.U.						
Transportation	293	520	282	9,096	572	10,763
Communications	59	134	99	2,149	155	2,596
Public Utilities	32	182	235	1,541	167	2,157
Trade						
Wholesale	151	348	173	6,321	309	7,302
Retail	730	1,692	1,888	23,995	1,408	29,713
F.I.R.E.	61	232	291	7,263	255	8,102
Services						
Business & Repair	113	279	315	3,365	234	4,306
Personal	350	735	1,164	12,975	680	15,904
Entertainment & Recr.	18	112	92	1,265	100	1,587
Hospitals						
Welfare, Religion, Non-profit						
Educational						
Other Professional & Related	696	686	1,607	12,379	850	16,218
Public Administration	653	1,229	313	8,458	428	11,081
Industry Not Reported	107	161	124	2,482	137	3,011
Total Labor Force	8,305	12,127	13,951	137,393	11,318	183,094
Unemployed	653	925	1,303	12,251	883	16,015
Relief Work	830	889	964	8,454	899	12,036

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1940								
	Larimer	Logan	Morgan	Weld	I.Plns. S/R	Clear Creek	Gil-pin	Park	Mtn. S/R
Agri., forestry and fishing	2,923	2,419	2,281	8,313	15,941	40	34	440	514
Mining	81	5	2	700	788	492	239	314	1,045
Construction	476	156	216	670	1,518	94	49	57	200
Manufacturing									
Durable	191	14	19	91	315	7	5	4	16
Non-durable	604	210	210	747	1,771	31	14	30	75
Trans., Comm., P.U.									
Transportation	275	367	167	530	1,339	34	37	14	85
Communications	86	48	53	138	325	8	0	10	18
Public Utilities	128	54	37	121	340	22	2	6	30
Trade									
Wholesale	170	199	108	415	892	4	2	6	12
Retail	1,638	735	700	2,114	5,187	160	71	114	345
F.I.R.E.	234	111	85	298	728	19	0	13	32
Services									
Business & Repair	264	137	108	385	894	29	2	30	61
Personal	871	352	332	905	2,460	71	19	73	163
Entertain. & Recr.	90	45	35	114	284	11	6	5	22
Hospitals									
Welfare, Religion, Non-profit									
Educational									
Other Professional & Related	1,157	474	377	1,523	3,531	62	29	71	162
Public Admin.	585	163	152	483	1,383	46	27	37	110
Industry Not Rept.	95	52	61	295	503	20	5	11	36
Total Labor Force	12,565	6,512	5,771	21,484	46,332	1,524	682	1,401	3,607
Unemployed	1,593	585	455	2,258	4,891	202	94	152	448
Relief Work	1,099	386	373	1,384	3,242	172	47	14	233

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1940									
	Douglas	Elbert	Sedgwick	Wash.	Cheyenne	Deuel	Keith	Kimball	Laramie	D.Plns. S/R
Agri., forestry & fish.	647	1,359	849	1,934	1,477	658	1,089	721	1,405	10,139
Mining	14	7	0	1	1	0	4	2	38	67
Const.	78	46	47	50	123	34	632	76	593	1,679
Mfg.										
Durable	3	1	2	2	32	8	27	5	80	160
Non-dur.	121	8	90	19	58	8	16	12	298	630
Trans., Comm. P. Util.										
Trans.	69	44	76	60	202	64	99	54	2,630	3,298
Comm.	9	12	11	7	22	4	20	7	120	212
P. Util.	3	2	9	7	27	6	22	8	135	219
Trade										
Wholesale	7	27	41	35	84	32	49	35	331	641
Retail	74	104	230	180	463	155	373	164	1,686	3,429
F.I.R.E.	6	15	18	21	45	19	38	22	303	487
Services										
Bus.& Rep.	18	30	48	34	80	25	58	45	247	585
Personal	51	39	95	101	200	70	184	108	962	1,810
Entertain. & Recr.	8	4	16	8	34	8	25	16	81	200
Hospitals Welfare, Religion, Non-prof. Education Other Prof. & Related	68	115	127	184	242	109	141	107	899	1,992
. Admin.	42	59	48	70	90	27	89	43	5,049	5,517
Indus. Not Reported	28	5	14	28	22	5	35	17	123	277
Total Labor Force	1,348	2,059	2,057	3,075	3,506	1,366	3,144	1,523	16,647	34,725
Unemployed	73	54	192	132	156	70	184	28	1,029	1,918
Relief Work	29	128	144	202	148	64	59	53	638	1,465

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 *Continued*

Industry Group	1940 SPRB	Colorado	Nebraska	Wyoming	United States
Agriculture, forestry and fishing	35,578	74,046	162,154	25,591	8,559,134
Mining	4,772	15,897	606	6,282	918,853
Construction	12,318	17,869	17,010	4,144	2,087,564
Manufacturing		35,567	29,725	4,601	10,670,087
Durable	9,793				
Non-durable	14,700				
Trans., Comm., P. U.					
Transportation	15,485	20,635	24,709	7,625	2,193,775
Communications	3,151	4,246	4,686	574	394,451
Public Utilities	2,746	4,121	4,380	796	555,001
Trade					
Wholesale	8,847	11,468	14,870	1,533	1,203,751
Retail	38,674	55,875	79,780	10,808	6,294,042
F.I.R.E.	9,349	11,563	13,873	1,278	1,474,681
Services					
Business & Repair	5,846	9,103	9,471	1,792	883,313
Personal	20,337	29,299	31,100	5,615	3,903,884
Entertainment & Recr.	2,093	3,109	3,308	685	396,529
Hospitals					
Welfare, Religion, Non-profit					
Educational					1,566,223
Other Professional & Related	21,903	33,095	36,423	6,632	1,824,204
Public Administration	18,091	18,006	16,692	7,638	1,415,283
Industry Not Reported	3,827	5,831	4,831	965	729,540
Total Labor Force	267,758	418,293	499,313	96,109	52,705,082
Unemployed	23,272	39,950	33,895	8,724	7,634,767
Relief Work	16,976	31,808	33,691	5,126	

Source: U.S. Bureau of Census, *Census of Population*, *General Social and Economic Characteristics*, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1960					
	Adams	Arapa-hoe	Boulder	Denver	Jeffer-son	Metro. S/R
Agriculture, forestry, & fishing	2,582	1,309	1,837	1,510	1,610	8,848
Mining	28	58	617	490	134	1,327
Construction	1,324	2,362	1,498	11,755	2,597	19,536
Manufacturing	1,882	3,233	1,252	27,943	3,106	37,416
Durable	477	1,313	505	9,533	1,262	13,090
Non-durable	1,405	1,920	747	18,410	1,844	24,326
Trans., Comm., P.U.	1,307	1,798	1,009	19,569	2,149	25,832
Transportation	990	1,077	409	13,607	1,260	17,343
Communication	165	308	242	3,410	471	4,596
Public Utilities	152	413	358	2,552	418	3,893
Trade	2,299	3,995	3,299	42,246	4,232	56,071
Wholesale	462	800	305	10,236	997	12,800
Retail	1,837	3,195	2,994	32,010	3,235	43,271
F.I.R.E.	264	548	435	9,656	752	11,655
Services	2,043	3,619	5,523	39,435	3,642	54,262
Business & Repair	347	677	513	5,518	576	7,631
Personal	542	954	1,528	11,941	918	15,883
Entertainment & Recr.	98	269	183	2,101	305	2,956
Hospitals, Welfare, & Non-profit	525	763	565	8,746	688	11,287
Educational	349	670	2,397	6,579	769	10,764
Other Professional & Related	182	286	337	4,550	386	5,741
Public Administration	606	1,089	556	11,836	1,493	15,580
Industry Not Reported	236	227	134	2,778	256	3,631
Total Labor Force	13,059	18,824	17,237	174,072	20,584	243,776
Unemployed	488	586	1,077	6,854	513	9,518

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1950								
	Larimer	Logan	Morgan	Weld	T.Plns. S/R	Clear Creek	Gil-pin	Park	Mtn. S/R
Agri., forestry & fishing	2,822	2,500	2,702	8,620	16,644	45	20	285	350
Mining	44	60	20	252	376	115	31	59	205
Construction	2,193	323	475	1,451	4,442	256	65	76	397
Manufacturing	1,221	292	405	1,300	3,218	58	14	31	103
Durable	542	48	46	222	858	38	7	29	74
Non-durable	679	244	359	1,078	2,360	20	7	2	29
Trans., Comm., P.U.	869	502	348	1,159	2,878	89	35	23	147
Transportation	397	347	211	661	1,616	42	32	6	80
Communication	195	69	53	217	534	14	0	11	25
Public Utilities	277	86	84	281	728	33	3	6	42
Trade	2,843	1,375	1,131	3,925	9,274	300	71	102	473
Wholesale	292	274	183	780	1,529	17	7	9	33
Retail	2,551	1,101	948	3,145	7,745	283	64	93	440
F.I.R.E.	415	137	116	456	1,124	14	4	9	27
Services	3,900	1,036	1,115	3,920	9,971	293	39	108	440
Business & Repair	487	202	228	749	1,666	48	4	25	77
Personal	1,150	263	299	870	2,582	122	9	39	170
Entertain, & Recr.	139	59	77	235	510	25	2	3	30
Hospitals, Welfare, & Non-profit	379	129	157	428	1,093	16	1	12	29
Educational	1,521	296	264	1,349	3,430	56	19	21	96
Other Professional & Related	224	87	90	289	690	26	4	8	38
Public Admin.	658	212	205	619	1,694	48	24	37	109
Industry Not Rept.	206	102	73	333	714	18	9	25	52
Total Labor Force	15,917	6,714	6,755	23,152	52,538	1,288	344	782	2,416
Unemployed	746	175	165	1,092	2,178	52	32	27	111

Source: U.S. Bureau of Census, _Census of Population_, _General Social and Economic Characteristics_, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1950									
	Doug-las	Elbert	Sedg-wick	Wash-	Chey-enne	Deuel	Keith	Kim-ball	Lara-mie	D.Plns. S/R
Agri., for-estry & fish.	543	1,068	778	1,828	1,395	552	947	772	1,226	9,110
Mining	9	3	3	2	104	11	15	3	161	311
Const.	104	72	122	147	287	111	249	96	1,069	2,257
Mfg.	206	20	102	23	109	20	162	40	684	1,366
Durable	20	13	24	11	27	4	124	30	164	407
Non-dur.	186	7	78	12	82	16	38	20	520	959
Trans., Comm. P. Util.	83	76	146	98	364	67	230	91	3,727	4,882
Trans.	65	56	107	68	268	51	145	72	3,294	4,126
Comm.	10	14	16	14	49	7	33	10	229	382
P. Util.	8	6	23	16	47	9	52	9	204	374
Trade	137	137	298	298	859	265	599	317	3,152	6,062
Wholesale	12	21	58	53	78	38	79	55	423	817
Retail	125	116	240	245	781	227	520	262	2,729	5,245
F.I.R.E.	10	13	27	22	92	18	54	31	472	739
Services	176	144	281	304	754	188	454	274	3,014	5,589
Bus. & Rep.	40	37	70	42	148	34	107	64	449	991
Personal	47	23	79	69	242	53	140	96	1,036	1,785
Entertain. & Recr.	8	4	8	14	49	4	27	8	131	253
Hospitals Welfare, & Non-prof.	8	4	24	20	88	16	33	19	588	800
Education	52	70	89	138	173	64	112	64	559	1,321
Other Prof. & Related	21	6	11	21	54	17	35	23	251	439
P. Admin.	54	62	66	80	852	39	86	73	1,968	3,280
Indus. Not Reported	30	35	13	21	93	33	74	26	256	581
Total Labor Force	1,373	1,638	1,932	2,863	5,034	1,328	2,941	1,779	16,282	35,170
Unemployed	21	8	96	40	125	23	71	56	553	993

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

341

TABLE c-12 Continued

Industry Group	1950				
	SPRB	Colorado	Nebraska	Wyoming	United States
Agriculture, forestry & fishing	34,952	72,467	151,648	22,278	7,033,591
Mining	2,219	10,254	1,073	8,726	930,968
Construction	26,632	38,085	32,838	9,116	3,457,980
Manufacturing	42,103	58,279	46,915	6,490	14,685,482
Durable	14,429				
Non-durable	27,674				
Trans., Comm., P. U.	33,739				
Transportation	23,165	29,703	33,237	11,047	2,953,979
Communication	5,537	7,519	5,994	1,255	710,525
Public Utilities	5,037	7,780	7,579	1,616	765,357
Trade	71,880				
Wholesale	15,179	19,592	19,583	2,313	1,965,036
Retail	56,701	80,839	77,782	15,994	8,542,295
F.I.R.E.	13,545	16,947	17,388	2,325	1,919,610
Services	70,262				
Business & Repair	10,365	15,146	14,128	3,147	1,307,669
Personal	20,420	29,675	23,461	5,816	3,464,991
Entertainment & Recr.	3,749	5,715	4,494	1,025	493,433
Hospitals, Welfare & Non-profit	13,209				
Educational	15,611	22,699	21,353	5,064	2,078,749
Other Professional & Related	6,908	28,276	22,161	4,173	2,747,804
Public Administration	20,663	26,582	20,276	5,571	2,514,469
Industry Not Reported	4,978	7,086	11,739	1,880	843,335
Total Labor Force	333,900	497,648	523,329	112,666	59,303,720
Unemployed	12,800	21,004	11,680	4,830	2,854,311

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 Continued

	1960					
Industry Group	Adams	Arapahoe	Boulder	Denver	Jefferson	Metro. S/R
Agriculture, forestry & fishing	1,784	959	1,468	1,696	1,061	6,968
Mining	280	443	318	1,679	571	3,291
Construction	3,870	3,313	2,299	10,543	4,647	24,672
Manufacturing	8,626	10,267	3,616	35,385	9,662	67,556
Durable	3,939	6,852	2,091	15,867	5,241	33,990
Non-durable	4,687	3,415	1,525	19,518	4,421	33,566
Trans., Comm., P. U.	4,893	3,118	1,450	16,317	4,217	29,995
Transportation	3,598	1,804	569	10,291	2,212	18,474
Communication	657	774	379	3,554	1,099	6,463
Public Utilities	638	540	502	2,472	906	5,058
Trade	8,825	7,719	5,277	42,763	10,181	74,765
Wholesale	2,224	1,574	576	10,612	2,400	17,386
Retail	6,601	6,145	4,701	32,151	7,781	57,379
F.I.R.E.	1,665	2,142	1,261	12,635	2,992	20,695
Services	7,473	9,057	9,300	49,231	10,427	85,488
Business & Repair	1,178	1,051	662	6,274	1,469	10,634
Personal	2,163	2,362	2,158	12,281	2,084	21,048
Enterainment & Recr.	302	452	243	1,834	462	3,293
Hospitals, Welfare & Non-profit	1,301	1,688	1,071	11,293	1,326	16,679
Educational	1,828	2,029	4,062	10,200	3,096	21,215
Other Professional & Related	701	1,475	1,104	7,349	1,990	12,619
Public Administration	2,558	2,358	1,821	15,241	3,914	25,892
Industry Not Reported	652	792	572	10,893	855	13,764
Total Labor Force	42,275	41,600	28,235	203,821	49,836	365,767
Unemployed	1,406	1,401	850	7,246	1,309	12,212

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1960									
	Doug-las	Elbert	Sedg-wick	Wash.	Chey-enne	Deuel	Keith	Kim-ball	Lara-mie	D.Plns. S/R
Agri.,for-estry&Fish.	285	671	479	1,258	983	446	753	466	894	6,235
Mining	9	7	4	8	298	3	8	556	110	1,003
Const.	164	118	69	105	279	80	202	236	3,267	4,521
Mfg.	395	68	135	50	162	33	499	90	2,813	4,245
Durable	186	45	12	4	34	5	484	42	1,958	2,770
Non-dur.	209	23	123	46	128	28	15	48	855	1,475
Trans.,Comm. P. Util.	147	102	109	108	477	48	191	190	3,308	4,680
Trans.	100	79	63	72	301	34	104	134	2,519	3,406
Comm.	28	15	12	11	93	0	14	8	443	624
P. Util.	19	8	34	25	83	14	73	48	346	650
Trade	232	166	332	327	1,019	258	601	529	4,035	7,499
Wholesale	5	22	49	45	153	31	68	65	488	926
Retail	227	144	283	282	866	227	533	464	3,547	6,573
F.I.R.E.	62	28	39	30	147	30	51	65	921	1,373
Services	221	140	379	319	1,089	224	553	533	4,588	8,046
Bus. & Rep.	14	26	35	53	135	22	87	95	481	948
Personal	47	13	101	55	385	47	198	155	1,543	2,544
Entertain. & Recr.	15	16	39	19	39	0	25	12	117	282
Hospitals, Welfare & Non-prof.	29	8	52	31	177	30	72	58	855	1,312
Education	72	73	131	142	279	100	125	142	1,018	2,082
Other Prof. & Related	44	4	21	19	74	25	46	71	574	878
P. Admin.	79	71	65	114	815	51	89	78	2,050	3,412
Indus. Not Reported	49	35	41	58	44	25	52	92	532	928
Total Labor Force	1,662	1,423	1,688	2,425	5,490	1,201	3,086	2,911	23,328	43,214
Unemployed	19	17	36	47	177	3	87	76	810	1,272

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

TABLE c-12 Continued

Industry Group	1960								
	Larimer	Logan	Morgan	Weld	I.Plns S/R	Clear Creek	Gil-pin	Park	Mtn. S/R
Agri., forestry & fishing	2,172	1,633	1,982	6,445	12,232	18	11	182	211
Mining	127	355	360	165	1,007	60	11	4	75
Construction	1,735	470	574	1,935	4,714	167	27	191	385
Manufacturing	2,526	327	358	2,511	5,722	80	13	28	121
Durable	1,583	70	75	767	2,495	57	0	28	85
Non-durable	943	257	283	1,744	3,227	23	13	0	36
Trans.,Comm.,P.U.	1,214	656	540	1,596	4,006	104	29	33	166
Transportation	446	410	326	898	2,080	30	23	12	65
Communication	305	90	67	331	793	42	0	8	50
Public Utilities	463	156	147	367	1,133	32	6	13	51
Trade	3,667	1,461	1,514	4,402	11,044	274	69	88	431
Wholesale	396	287	273	824	1,780	10	0	17	27
Retail	3,271	1,174	1,241	3,578	9,264	264	69	71	404
F.I.R.E.	603	214	269	931	2,017	37	13	0	50
Services	5,844	1,561	1,411	5,642	14,458	280	46	183	509
Business & Repair	355	229	132	552	1,268	42	7	4	53
Personal	1,499	307	432	1,293	3,531	115	4	75	194
Entertain. & Recr.	158	73	80	118	429	24	4	0	28
Hospitals, Welfare & Non-profit	553	290	241	768	1,852	5	0	8	13
Educational	2,719	483	422	2,230	5,854	69	31	75	175
Other Professional & Related	560	179	104	681	1,524	25	0	21	46
Public Admin.	883	286	307	854	2,330	59	33	21	113
Industry Not Rept.	548	162	156	448	1,314	9	15	7	31
Total Labor Force	20,192	7,309	7,763	25,911	61,175	1,137	274	764	2,175
Unemployed	873	184	292	982	2,331	49	7	27	83

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85).

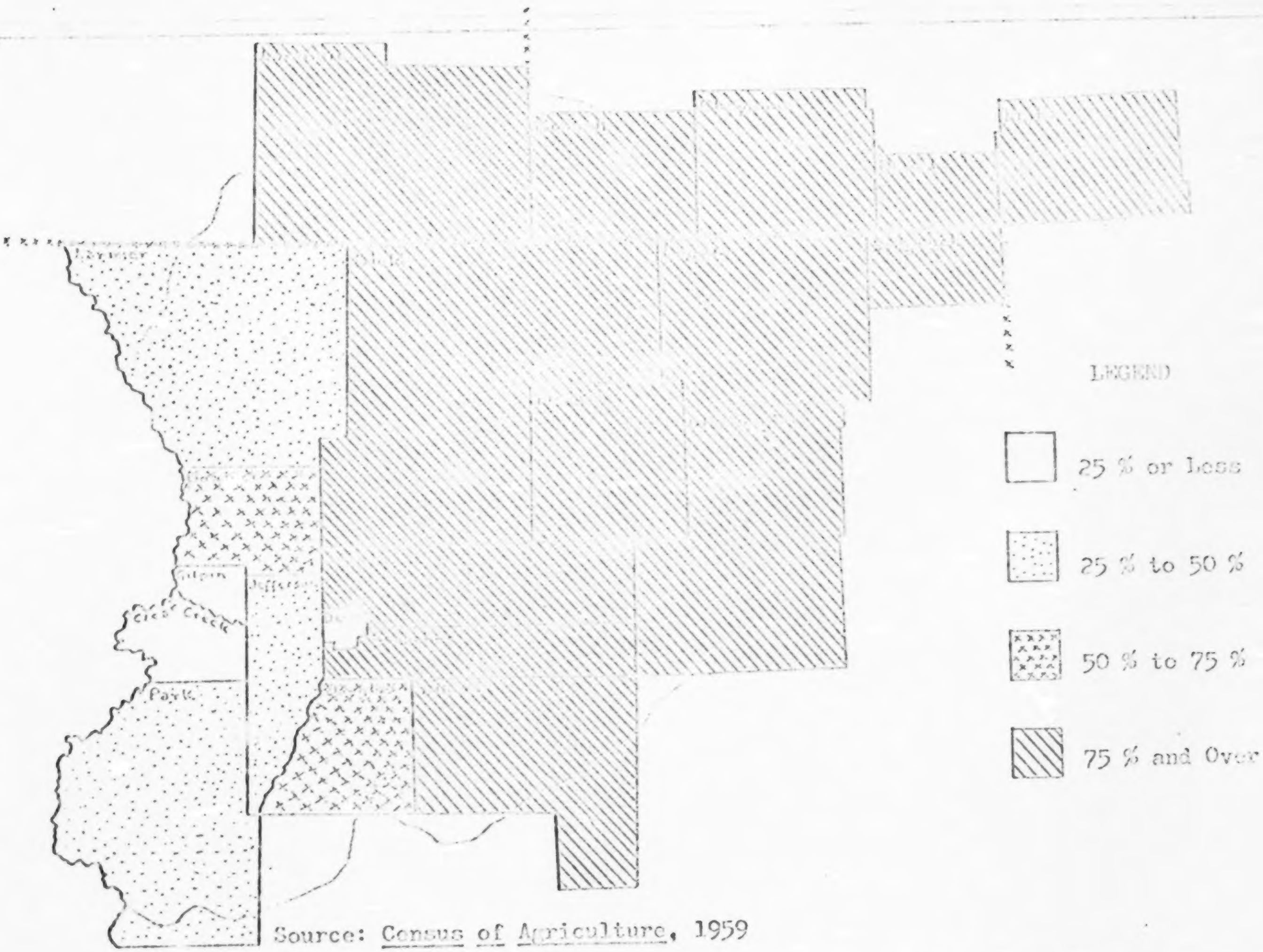
TABLE C-12 *Continued*

Industry Group	1960				
	SPRB	Colorado	Nebraska	Wyoming	United States
Agriculture, forestry & fishing	25,646	48,660	111,426	16,381	4,349,884
Mining	5,376	17,250	1,882	8,851	654,006
Construction	34,292	44,179	31,722	11,076	3,815,937
Manufacturing	77,644	98,887	64,137	9,294	17,513,086
Durable	39,340				
Non-durable	38,304				
Trans., Comm., P.U.	38,847				
Transportation	24,025	29,724	27,284	8,553	2,739,913
Communication	7,930	9,964	7,581	1,668	819,649
Public Utilities	6,892	10,258	9,186	2,405	898,585
Trade	93,739				
Wholesale	20,119	24,781	19,323	2,766	2,212,984
Retail	73,620	103,119	83,214	20,386	9,579,651
F.I.R.E.	24,135	29,562	22,118	3,640	2,694,630
Services	108,501				
Business & Repair	12,903	16,875	12,194	2,535	1,610,728
Personal	27,317	38,599	28,235	8,189	3,858,494
Entertainment & Recr.	4,032	5,657	3,800	749	502,879
Hospitals, Welfare & Non-profit	19,856				
Educational	29,326	41,948	30,358	7,796	3,393,933
Other Professional & Related	15,067	48,599	36,009	7,138	3,983,913
Public Administration	31,747	40,523	23,832	6,492	3,202,890
Industry Not Reported	16,037	21,182	13,637	2,893	2,608,085
Total Labor Force	471,862	652,805	542,658	127,328	68,144,079
Unemployed	15,898	26,036	16,720	6,516	3,504,827

Source: U.S. Bureau of Census, Census of Population, General Social and Economic Characteristics, 1960 (Table 85)

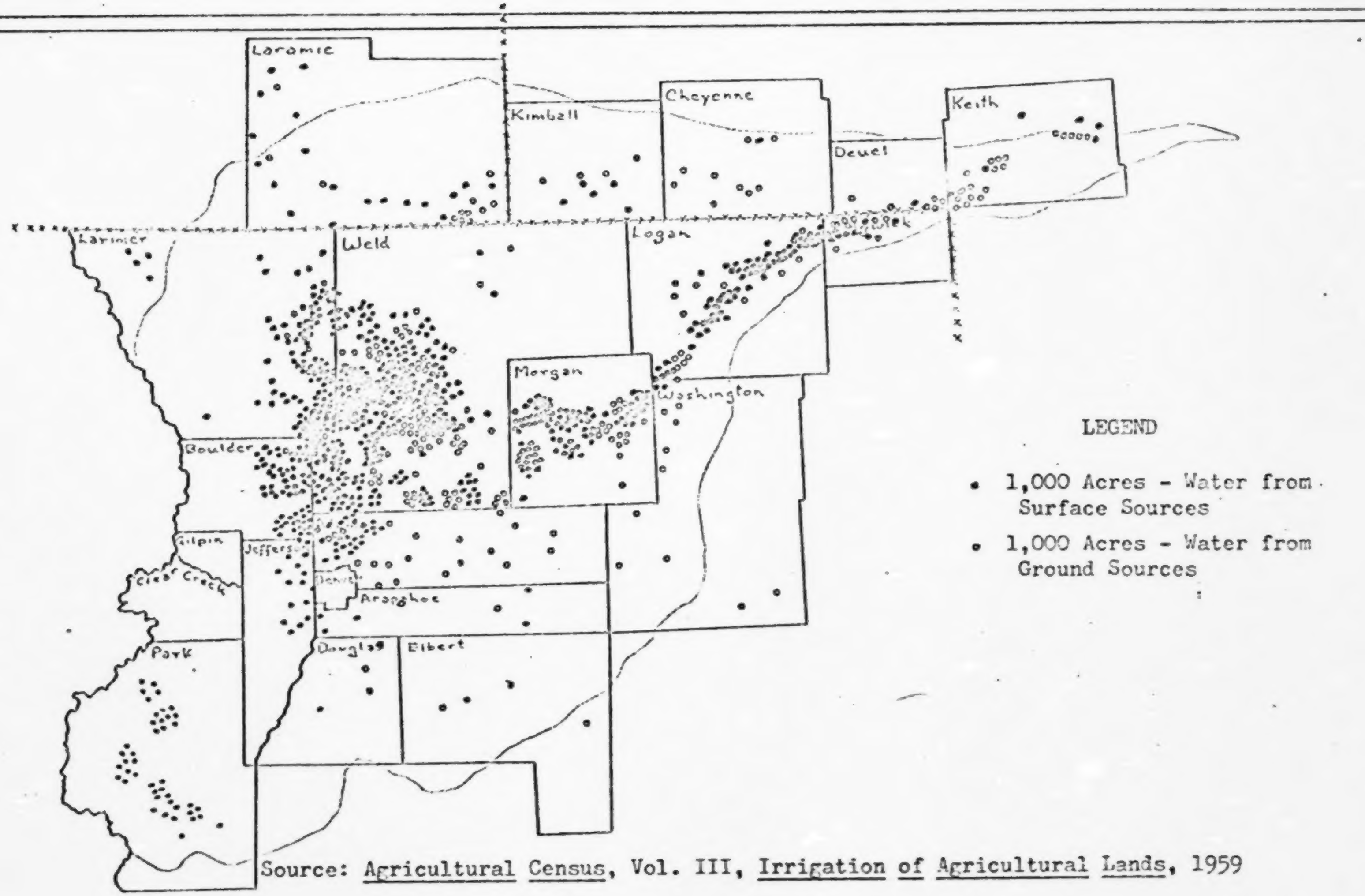
Appendix D

Graphic Illustrations of Agricultural Data on the South Platte River Basin


Larimer
Gilpin
Jefferson
Clear Creek
Park
LEGEND
25 % or Less
25 % to 50 %
50 % to 75 %
75 % and Over

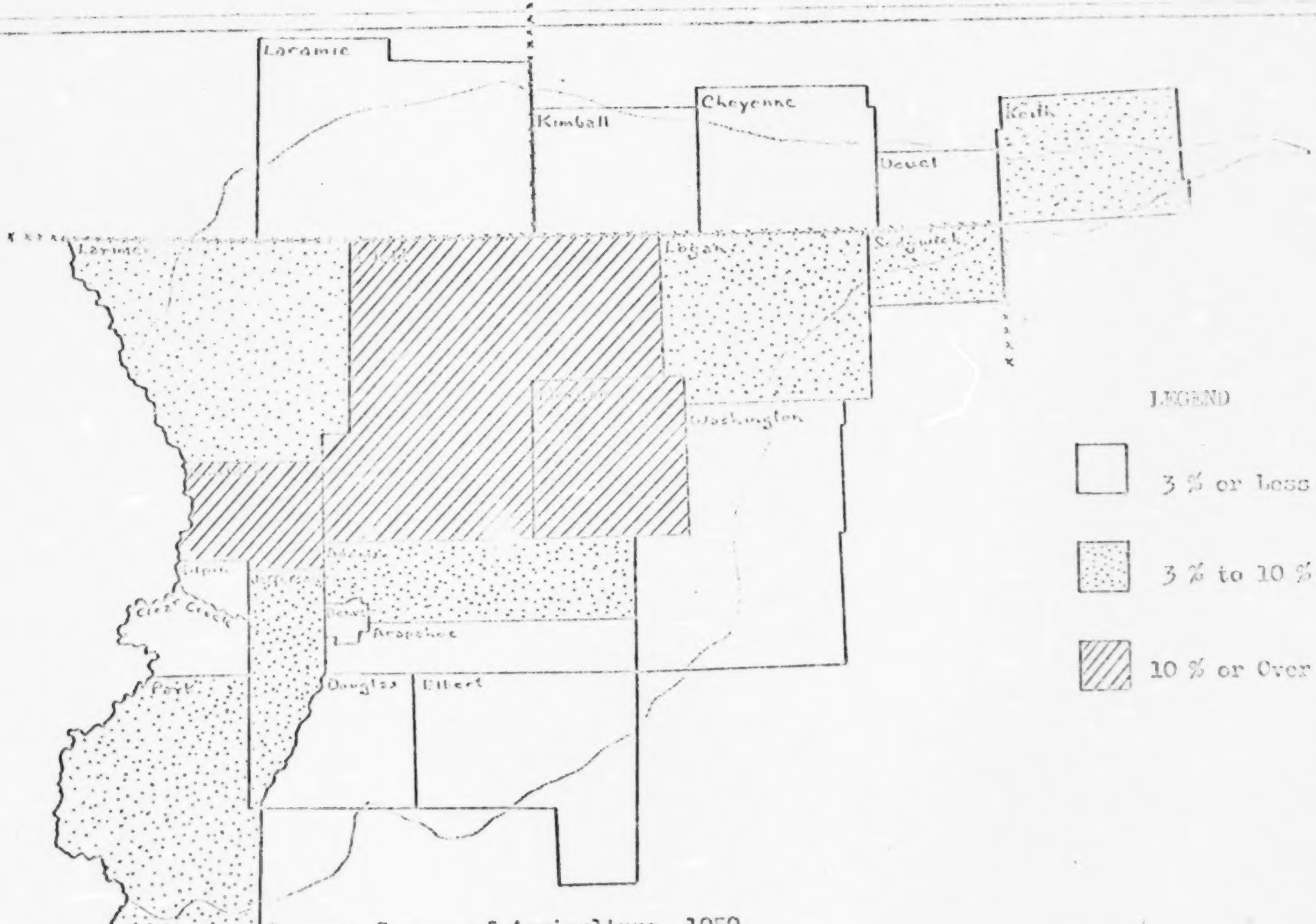
Source: Census of Agriculture, 1959

Fig. c-17 --Proportion of Land in Private Farms in The South Platte River Basin, 1959


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
• 1,000 Acres - Water from Surface Sources
∘ 1,000 Acres - Water from Ground Sources

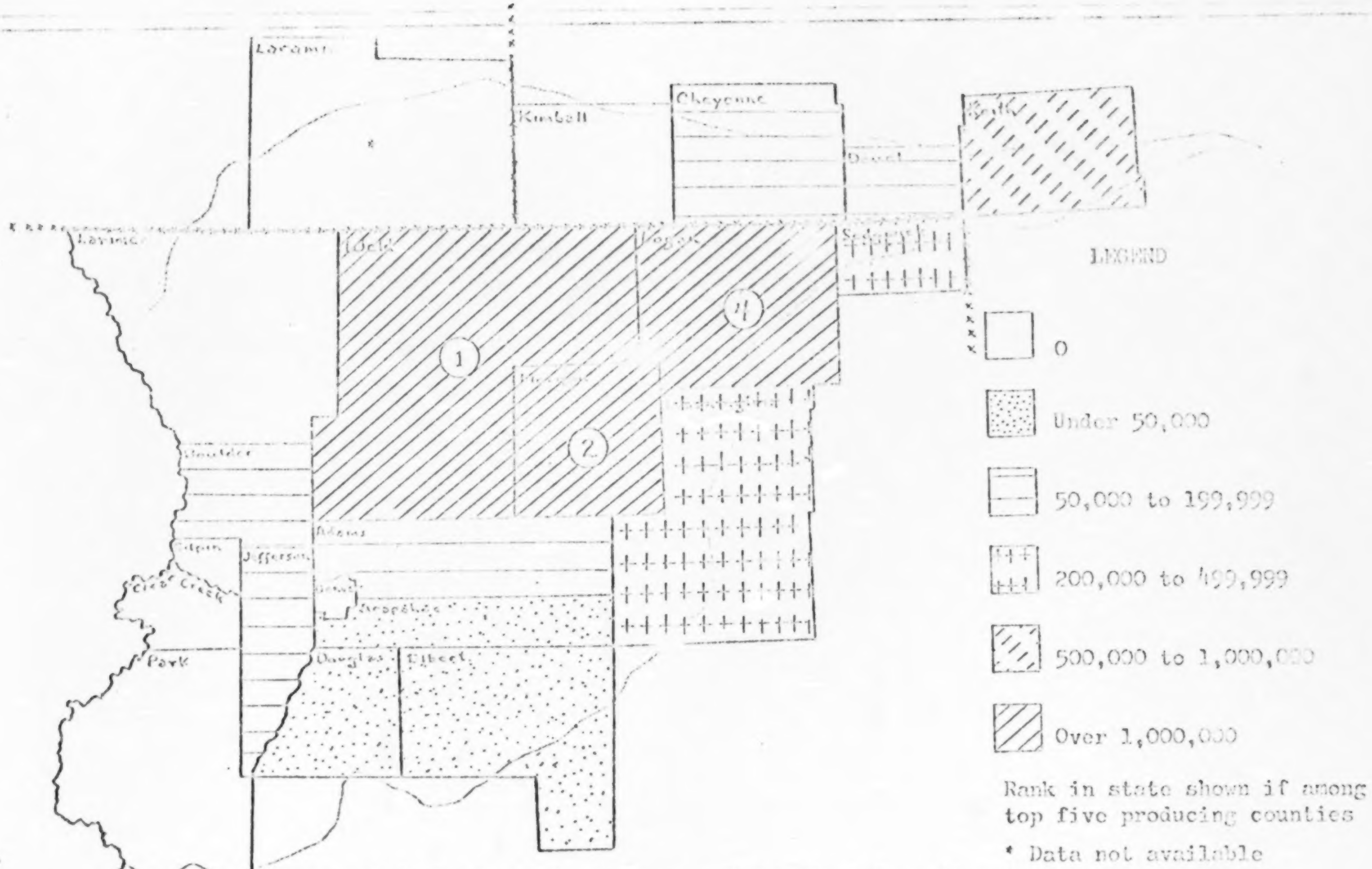
Source: Agricultural Census, Vol. III, Irrigation of Agricultural Lands, 1959

Fig. c-18 --Acres of Irrigated Land in The South Platte River Basin


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Logan
Sedgwick
Washington
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
3 % or Less
3 % to 10 %
10 % or Over

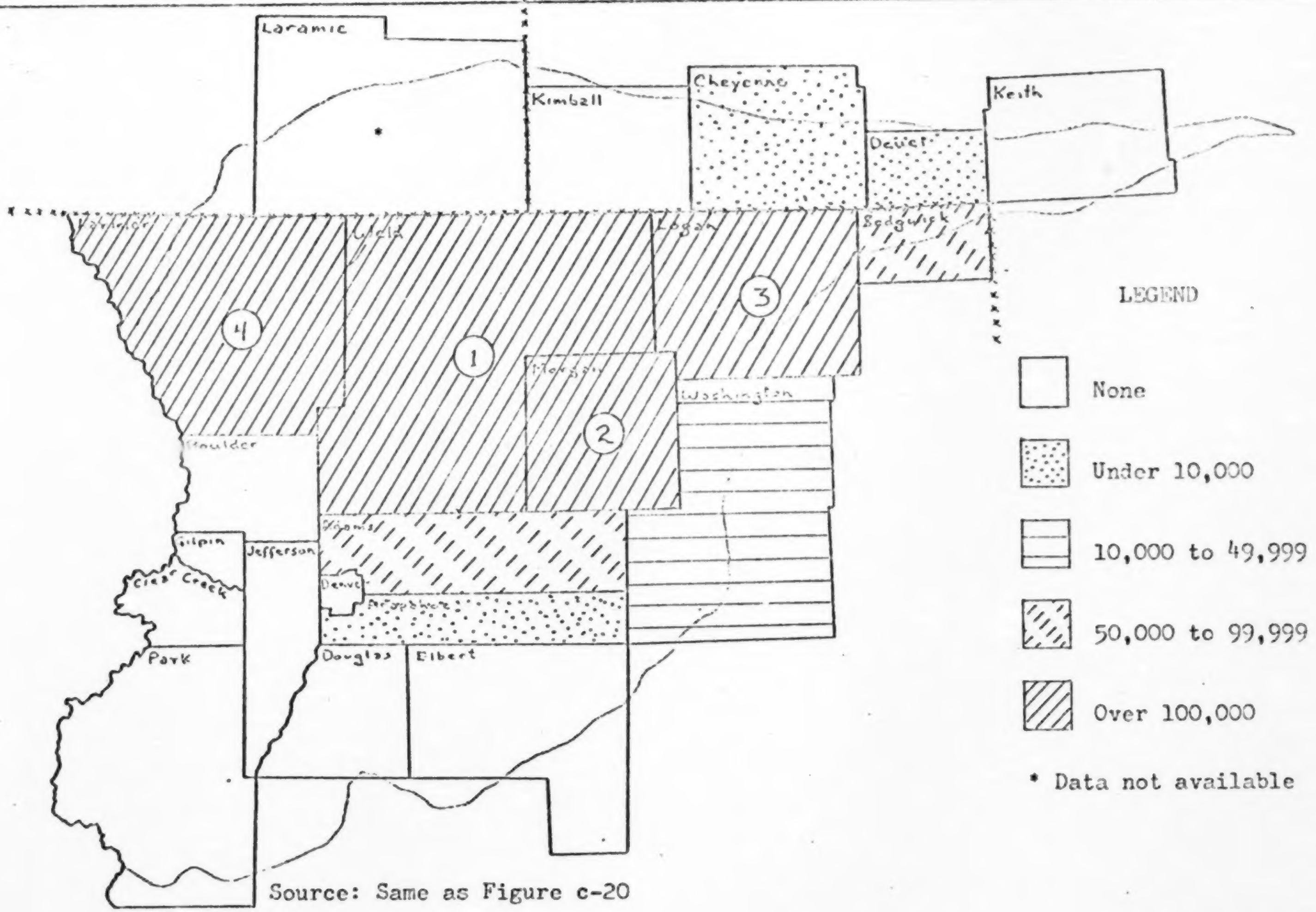
Source: Census of Agriculture, 1959

Fig. c-19 --The Proportion of Land Irrigated in The South Platte River Basin, 1959


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Boulder
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
1
2
4
LEGEND
0
Under 50,000
50,000 to 199,999
200,000 to 499,999
500,000 to 1,000,000
Over 1,000,000
Rank in state shown if among top five producing counties
* Data not available

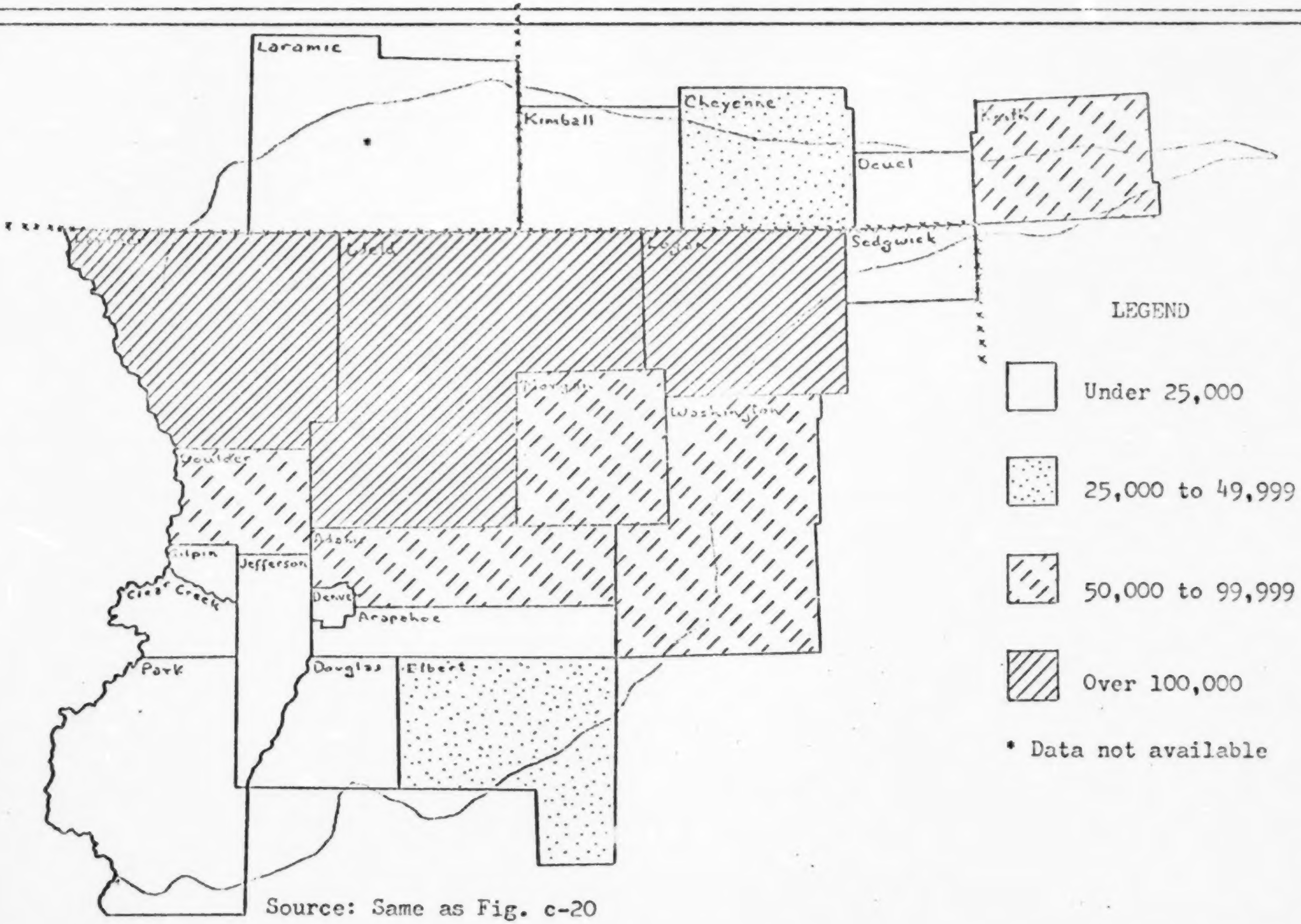
Source: U.S. Dept. of Agriculture, Statistical Reporting Service, Agricultural Statistics, 1964-65, for states of Colorado and Nebraska

Fig. c-20 --Bushels of Corn Grain Produced in The South Platte River Basin, 1964


Laramic
Kimball
Cheyenne
Keith
Deuel
Sedgwick
Larimer
Weld
Logan
1
2
3
4
Morgan
Washington
Boulder
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
None
Under 10,000
10,000 to 49,999
50,000 to 99,999
Over 100,000
* Data not available

Source: Same as Figure c-20

Fig. c-21 --Tons of Sugar Beets Produced in The South Platte River Basin, 1964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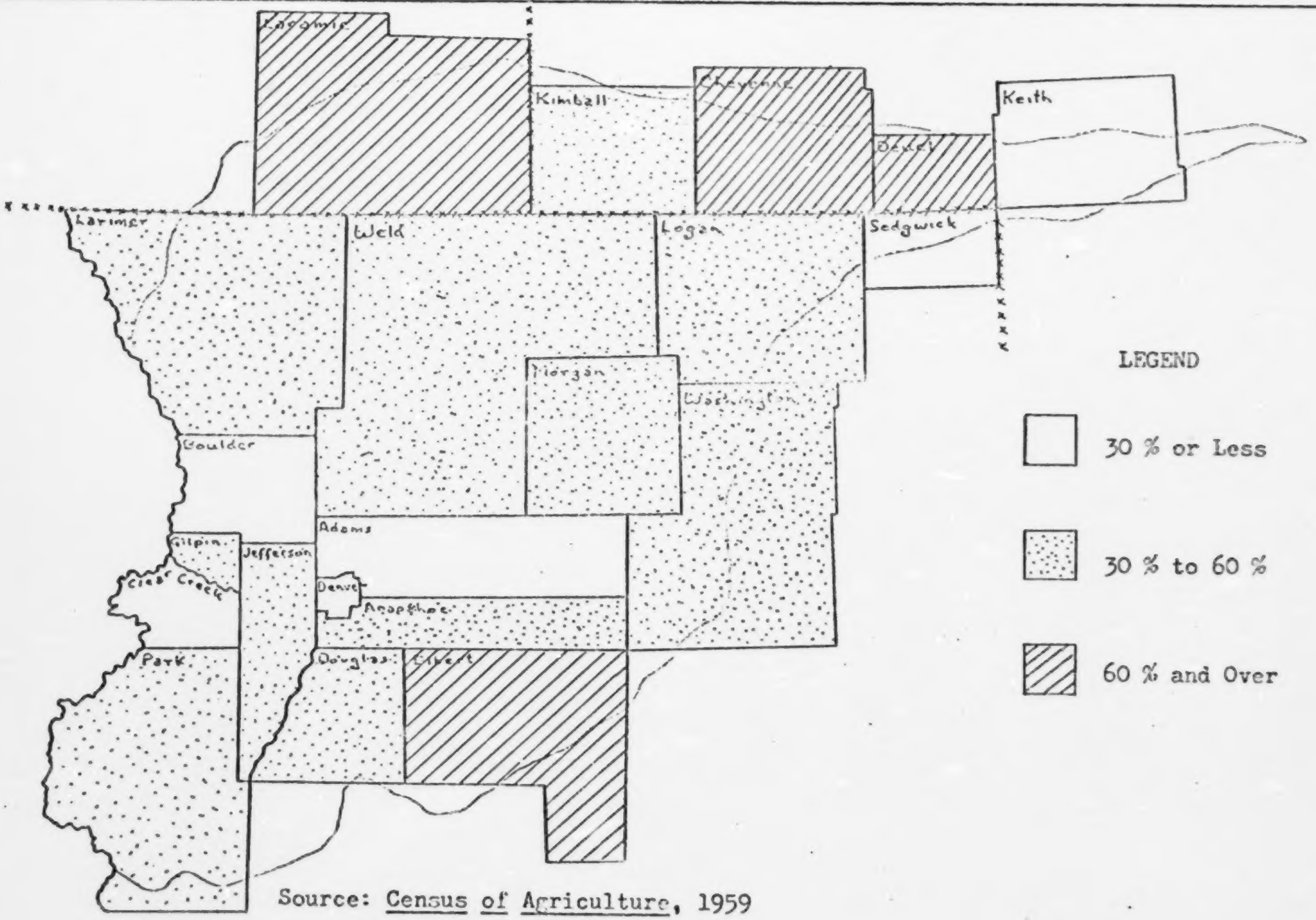
Kimball
Cheyenne
Deuel
Keith
Sedgwick
Logan
Weld
Morgan
Washington
Boulder
Adams
Gilpin
Clear Creek
Jefferson
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
Under 25,000
25,000 to 49,999
50,000 to 99,999
Over 100,000
* Data not available

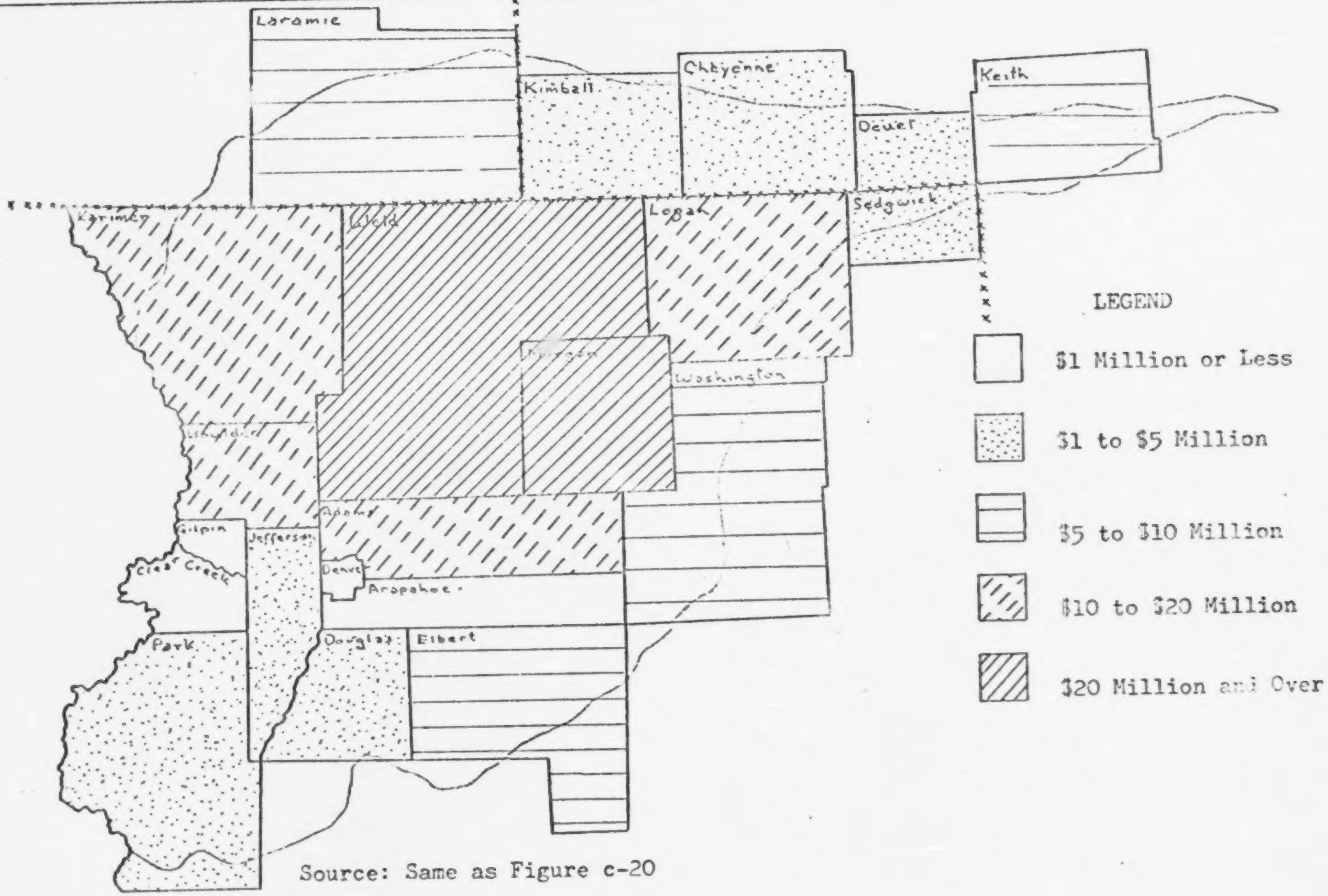
Source: Same as Fig. c-20

Fig. c-22 --Tons of Hay Produced in The South Platte River Basin, 1963


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
☐ 30 % or Less
▨ 30 % to 60 %
▨ 60 % and Over

Source: Census of Agriculture, 1959

Fig. c-23 --Proportion of Land Used for Grazing in The South Platte River Basin, 1959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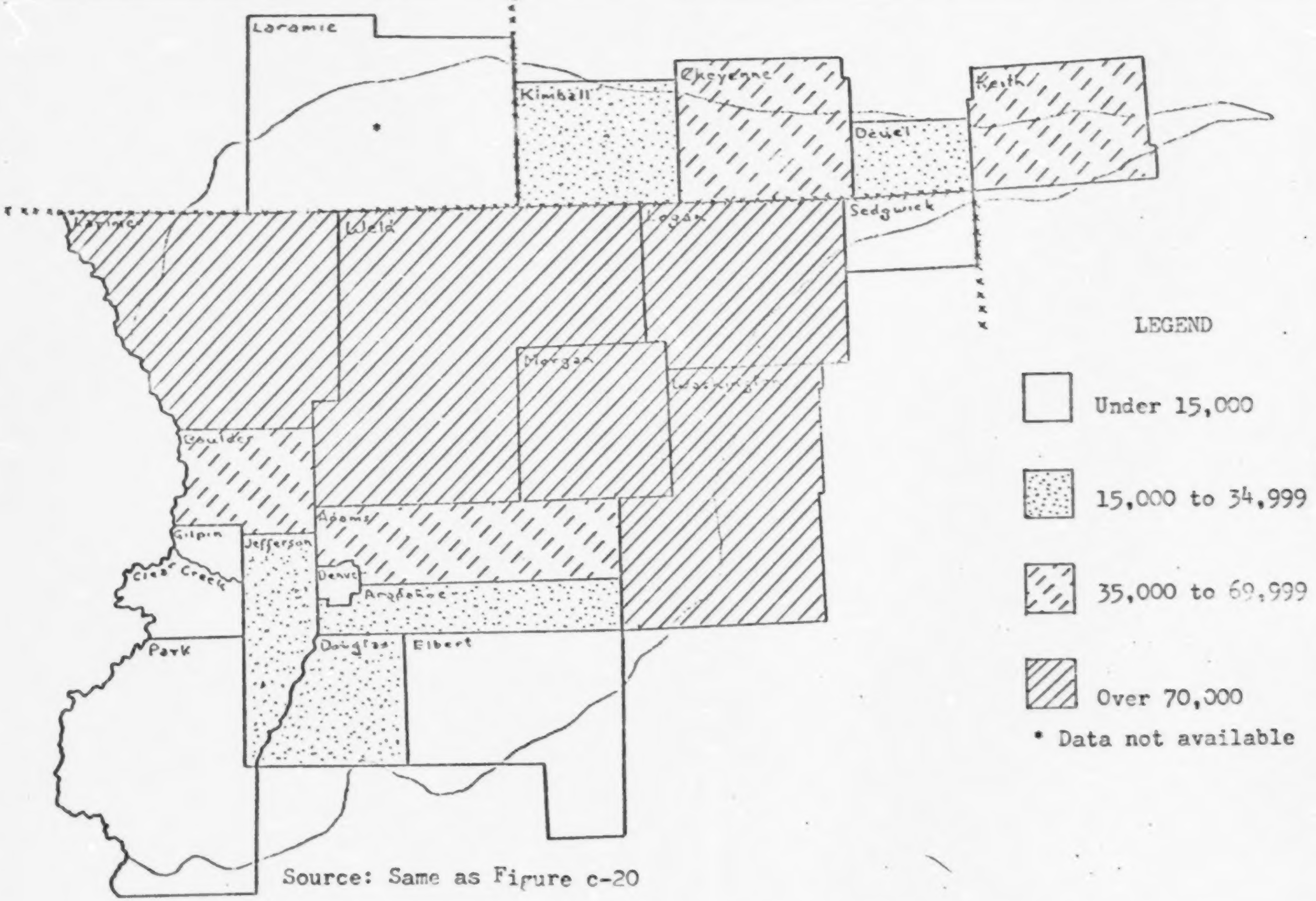
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Gilpin
Clear Creek
Jefferson
Adams
Denver
Arapahoe
Douglas
Elbert
Park
LEGEND
□ $1 Million or Less
▒ $1 to $5 Million
▤ $5 to $10 Million
▨ $10 to $20 Million
▨ $20 Million and Over

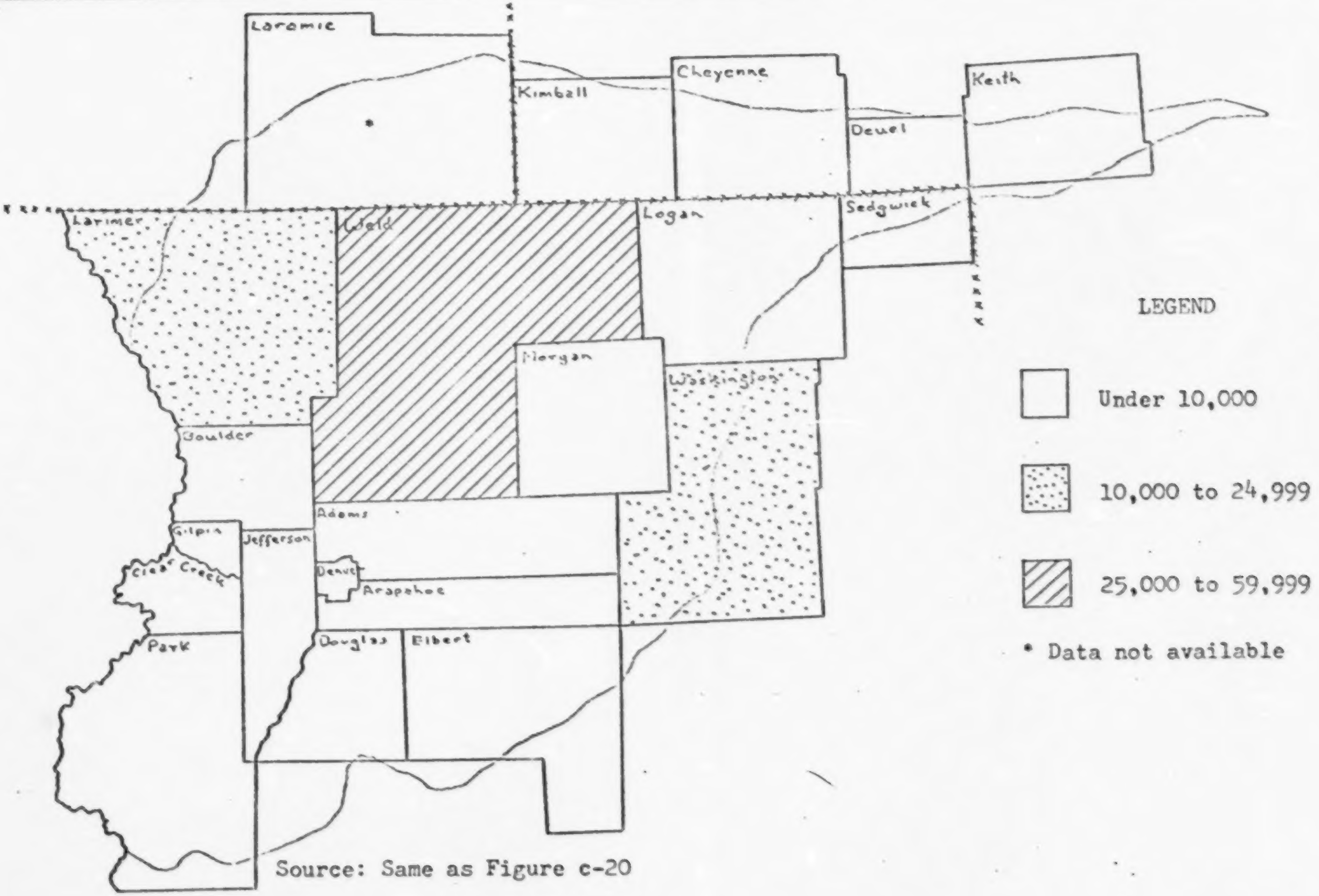
Source: Same as Figure c-20

Fig. c-24 --Livestock Production in The South Platte River Basin, 1959


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Gilpin
Jefferson
Adams
Denver
Clear Creek
Arapahoe
Park
Douglas
Elbert
LEGEND
□ Under 15,000
▨ 15,000 to 34,999
▨ 35,000 to 69,999
▨ Over 70,000
• Data not available

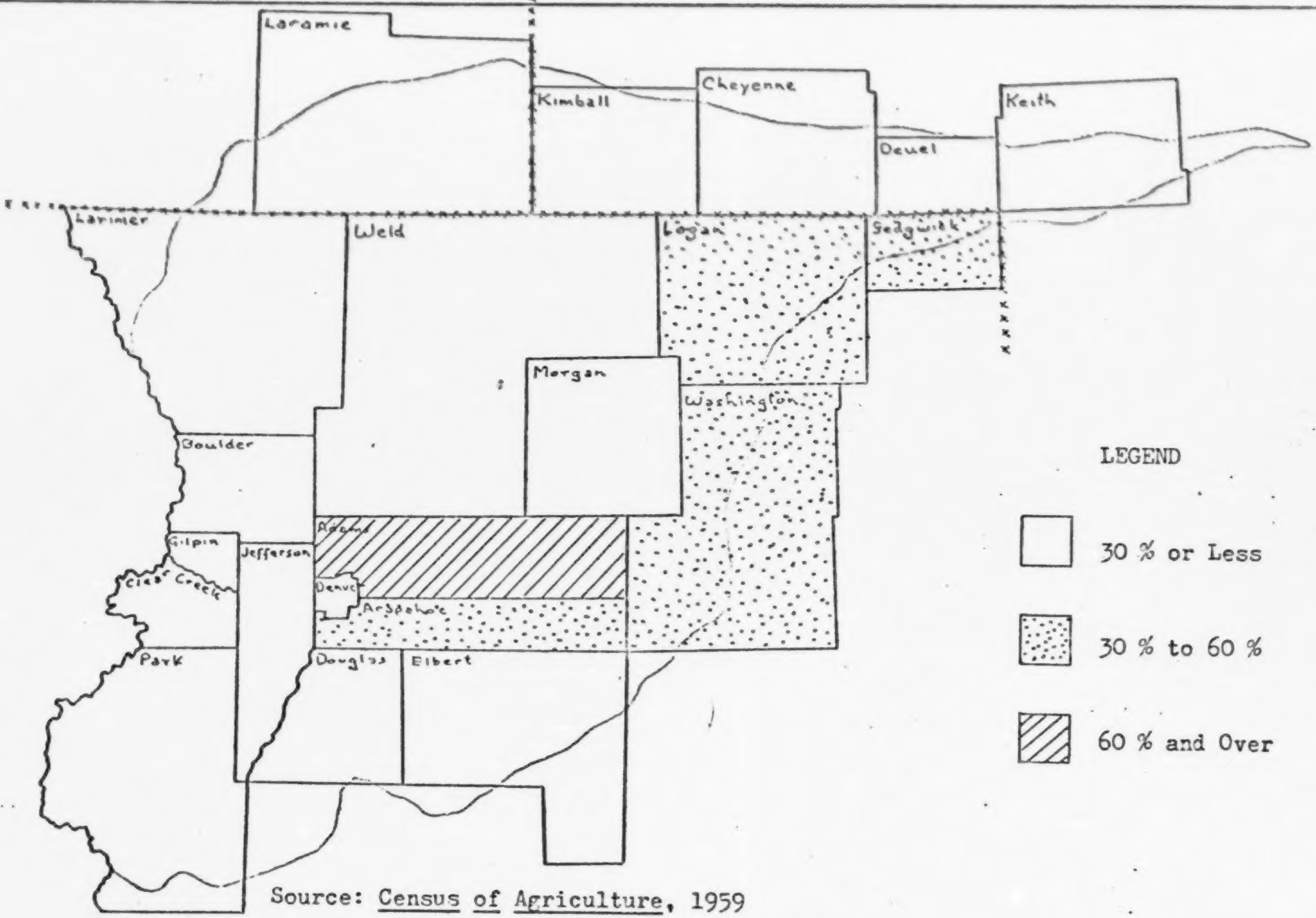
Source: Same as Figure c-20

Fig. c-25 --Cattle & Calves on Farms in The South Platte River Basin, 1964


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Adams
Gilpin
Clear Creek
Jefferson
Denver
Arapahoe
Douglas
Elbert
Park
LEGEND
Under 10,000
10,000 to 24,999
25,000 to 59,999
* Data not available

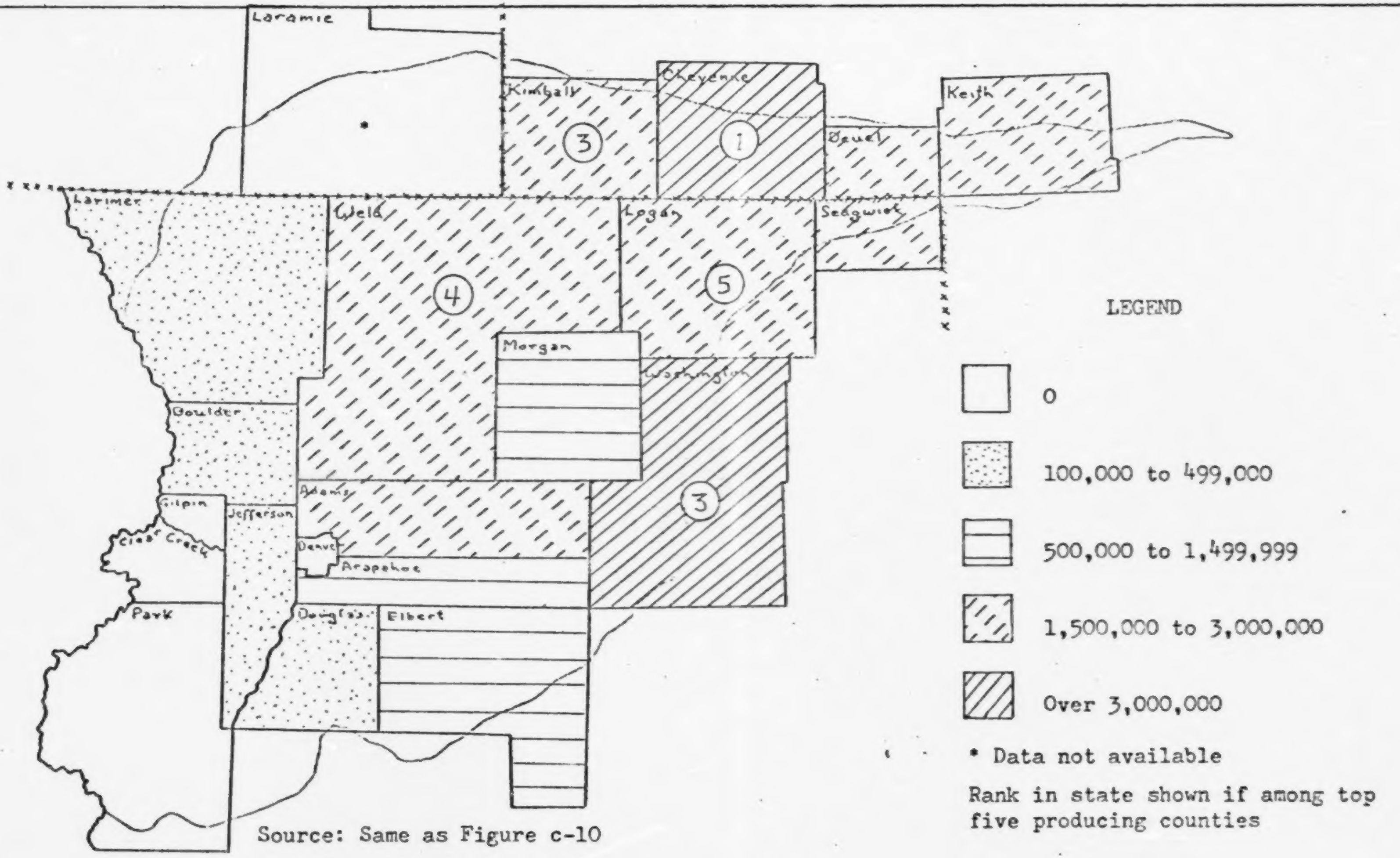
Source: Same as Figure c-20

Fig. c-26 --Stock Sheep on Farms in The South Platte River Basin, 1964


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Gilpin
Clear Creek
Jefferson
Adams
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
☐ 30 % or Less
▒ 30 % to 60 %
▨ 60 % and Over

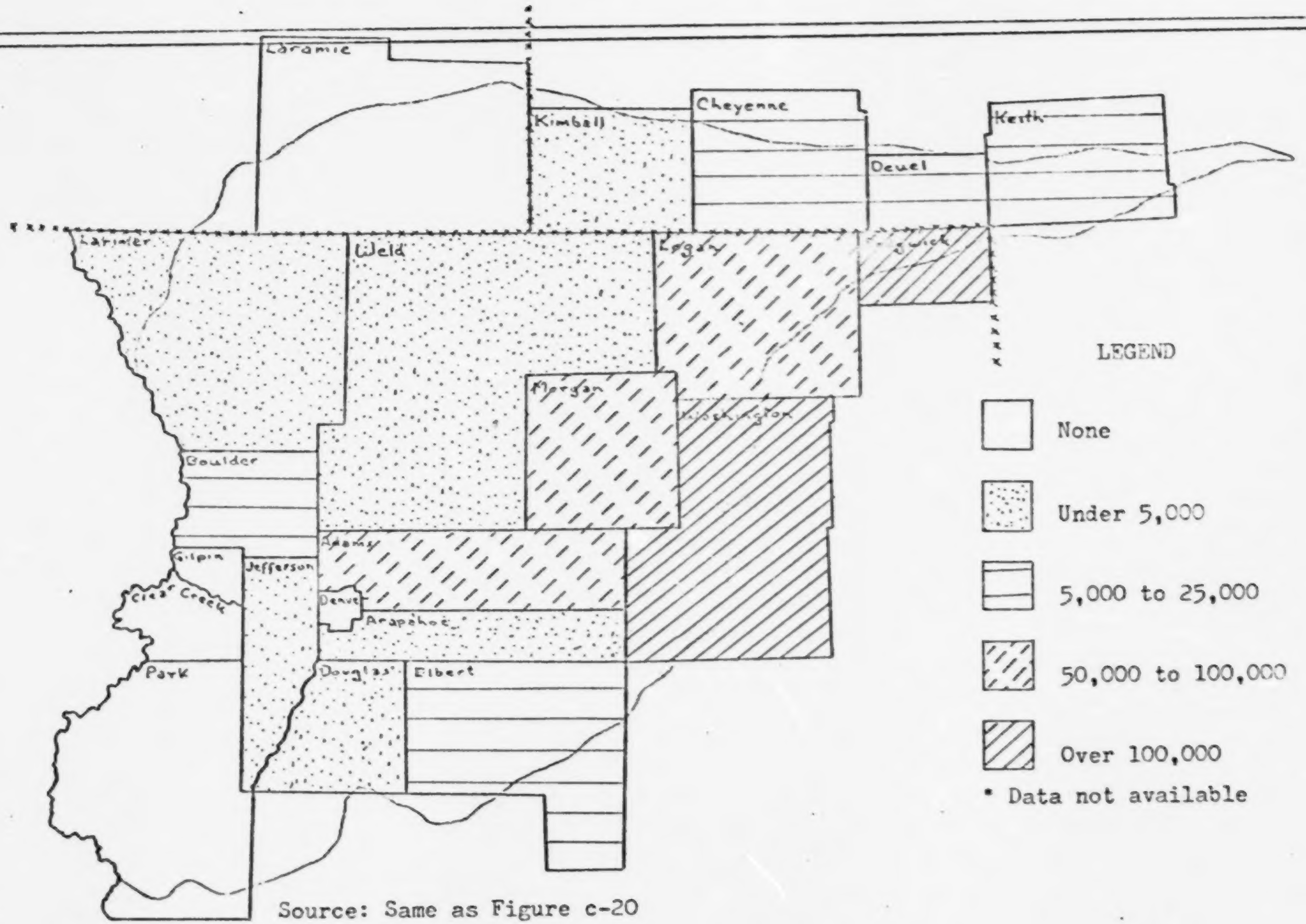
Source: Census of Agriculture, 1959

Fig. c-27 --Proportion of Land Used for Dry Farming in The South Platte River Basin, 1959


Laramie
Kimball
3
Cheyenne
1
Deuel
Keith
Larimer
Weld
4
Logan
5
Sedgwick
Morgan
Washington
3
Boulder
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
*
LEGEND
☐ 0
▒ 100,000 to 499,000
☰ 500,000 to 1,499,999
▨ 1,500,000 to 3,000,000
▨ Over 3,000,000
* Data not available
Rank in state shown if among top five producing counties

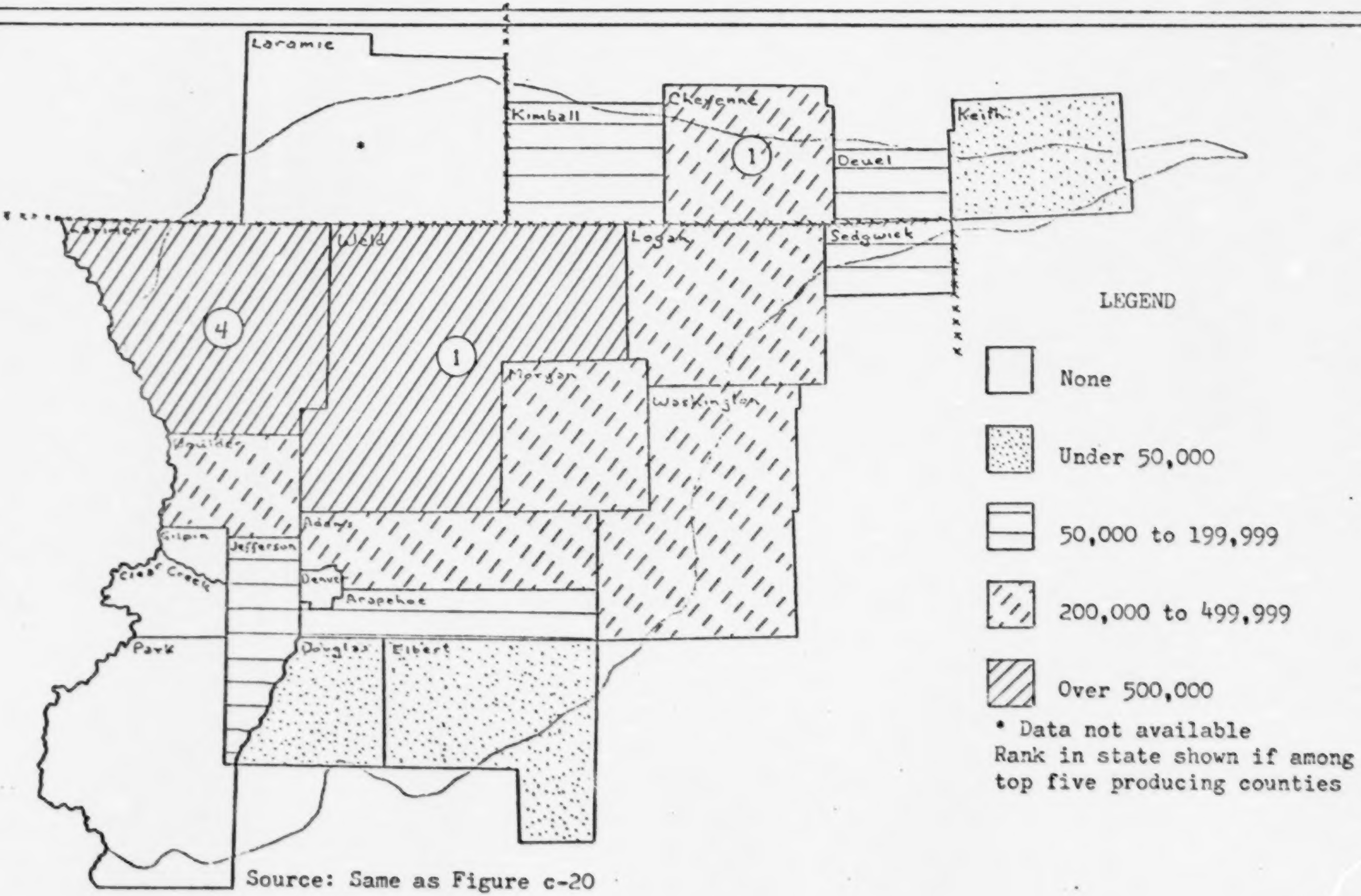
Source: Same as Figure c-10

Fig. c-28 --Bushels of Wheat Produced in The South Platte River Basin, 1964


Laramie
Kimball
Cheyenne
Deuel
Keith
Larimer
Weld
Logan
Sedgwick
Morgan
Washington
Boulder
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
☐ None
▨ Under 5,000
▤ 5,000 to 25,000
▨ 50,000 to 100,000
▨ Over 100,000
* Data not available

Source: Same as Figure c-20

Fig. c-29 --Bushels of Sorghum Produced in The South Platte River Basin, 1964


Laramie
Kimball
Cheyenne
1
Keith
Deuel
Sedgwick
Larimer
Weld
Logan
4
1
Morgan
Washington
Boulder
Adams
Gilpin
Jefferson
Clear Creek
Denver
Arapahoe
Park
Douglas
Elbert
LEGEND
None
Under 50,000
50,000 to 199,999
200,000 to 499,999
Over 500,000
* Data not available
Rank in state shown if among top five producing counties

Source: Same as Figure c-20

Fig. c-30 --Bushels of Barley Produced in The South Platte River Basin, 1964

1964 UNITED STATES CENSUS OF AGRICULTURE

PRELIMINARY REPORT

Series AC 64-P1

Farms
Farm Characteristics
Farm Products

KEITH COUNTY, NEBRASKA

This report presents preliminary figures for the Census of Agriculture taken in the fall of 1964, and comparable final data for the 1959 Census. Final data for each county and State will be published within a few months in Volume I of the reports of the 1964 Census of Agriculture.

Data for number of farms and persons in farm-operator households, and inventory of equipment and livestock, relate approximately to the date (November-December) the census was taken. Data for acres, production, and sales of crops relate generally to the crops harvested during the crop or calendar year of 1964 or 1959, regardless of the date of sales. Data for sales of livestock and livestock products and farm expenditures are for the calendar year.

Census farms comprise places on which agricultural operations were conducted at any time under the control or supervision of one person, a partnership or a manager. Places of less than 10 acres were counted as farms if the estimated sales of agricultural products for the year amounted, or normally would amount to at least $250. Places of 10 or more acres were counted as farms if the estimated sales of agricultural products for the year amounted or normally would amount to at least $50.

▶Land in farms.—Land acreage in farms consists primarily of land used for crops and pasture or grazing. It also includes considerable areas of land not actually under cultivation nor used for pasture or grazing.

▶Value of farm products sold.—These figures were obtained by addition of reported or estimated values for all products sold from the farm. The values for cattle and calves, hogs, sheep, some poultry products, vegetables, nursery and greenhouse products, standing timber, and miscellaneous forest products were obtained from the farm operator during the enumeration. For corn, sorghums, small grains, hay, some fruits, some of the forest products, chickens and chicken eggs, and milk and cream, the quantity sold was obtained during the enumeration and the value of sales was obtained by multiplying the quantity sold by State average prices.

▶Commercial farms.—In general, all farms with a total value of products sold amounting to $2,500 or more are classified as commercial. Farms with sales of $50 to $2,499 are classified as commercial if the farm operator was under 65 years of age and (1) he did not work off the farm 100 or more days during the year and (2) the income received by the operator and members of his family from nonfarm sources was less than the value of all farm products sold. To be classified as a particular type, a commercial farm had to have sales of a particular product or group of products amounting in value to 50 percent or more of the total value of all farm products sold during the year.

▶Farm households.—Persons in farm-operator households include all persons living in the house of the operator or operators at the time of the census, including hired employees.

▶Source of data.—The data were obtained from farm operators who were mailed copies of the questionnaire in advance of the census. Census enumerators visited each farm operator to obtain and review the questionnaire already filled or to fill the questionnaire if necessary. Data for certain items specified in the table headnotes are estimates based upon reports for only a sample of approximately one-fourth of all farms.

August 1966

U. S. DEPARTMENT OF COMMERCE
John T. Connor, Secretary

BUREAU OF THE CENSUS
A. Ross Eckler, Director

For sale by the Bureau of the Census, Washington, D. C., 20233, and U. S. Department of Commerce Field Offices. 10 cents.

Table 1.--SUMMARY--FARMS, FARM ACREAGE, FARM OPERATORS: 1964 AND 1959

(Data for value of land and buildings for 1964 and 1959 and for farms by type and by economic class for 1959 based on sample. NA denotes data not available, X denotes not applicable)

SUBJECT	1964	1959
APPROXIMATE ACRES OF LAND AREA	686 080	686 080
PROPORTION IN FARMS	92.3	92.0
FARMS, ACREAGE, AND VALUE		
TOTAL FARMS	469	517
ACRES IN FARMS	633 504	630 955
AVERAGE SIZE OF FARM	1 350.8	1 220.5
VALUE OF LAND AND BUILDINGS:		
AVERAGE PER FARM	$114 675	$97 352
AVERAGE PER ACRE	87.97	82.94
FARMS BY SIZE		
LESS THAN 10 ACRES	11	9
10 TO 49 ACRES	13	16
50 TO 69 ACRES	8	3
70 TO 99 ACRES	6	6
100 TO 139 ACRES	8	8
140 TO 179 ACRES	35	43
180 TO 219 ACRES	5	7
220 TO 259 ACRES	10	12
260 TO 499 ACRES	82	113
500 TO 999 ACRES	122	142
1,000 TO 1,999 ACRES	100	99
2,000 ACRES OR MORE	69	59
FARMS BY TYPE		
FIELD-CROP FARMS OTHER THAN VEGETABLE AND FRUIT AND NUT	210	263
CASH-GRAIN	197	258
TOBACCO	(X)	(X)
COTTON	(X)	(X)
OTHER FIELD CROP	13	5
VEGETABLE	-	-
FRUIT AND NUT	-	-
POULTRY	-	-
DAIRY	7	1
LIVESTOCK OTHER THAN POULTRY AND DAIRY	162	150
GENERAL	37	51
MISCELLANEOUS AND UNCLASSIFIED	53	15
FARMS BY ECONOMIC CLASS		
COMMERCIAL FARMS	420	465
CLASS I (SALES OF $40,000 OR MORE)	50	42
CLASS II (SALES OF $20,000 TO $39,999)	78	86
CLASS III (SALES OF $10,000 TO $19,999)	110	147
CLASS IV (SALES OF $5,000 TO $9,999)	123	135
CLASS V (SALES OF $2,500 TO $4,999)	41	45
CLASS VI (SALES OF $50 TO $2,499)	18	10
FARMS BY ECONOMIC CLASS--CON.		
OTHER FARMS	49	15
PART TIME (OPERATOR WORKING OFF FARM 100 DAYS OR MORE, SALES $50 TO $2,499)	28	10
PART RETIREMENT (OPERATOR 65 YEARS OLD AND OVER, SALES $50 TO $2,499)	21	5
ABNORMAL	-	-
VALUE OF FARM PRODUCTS SOLD BY SOURCE		
ALL FARM PRODUCTS SOLD	$12 071 121	$10 245 090
AVERAGE PER FARM	25 738	21 344
ALL CROPS SOLD	3 663 041	4 103 146
FIELD CROPS (OTHER THAN VEGETABLES AND FRUITS AND NUTS)	3 660 347	4 099 937
VEGETABLES	825	2 250
FRUITS AND NUTS	469	309
FOREST PRODUCTS AND HORTICULTURAL SPECIALTY PRODUCTS	1 400	650
ALL LIVESTOCK AND LIVESTOCK PRODUCTS SOLD	8 400 213	6 141 944
POULTRY AND POULTRY PRODUCTS	17 213	44 284
DAIRY PRODUCTS	152 793	118 217
LIVESTOCK AND LIVESTOCK PRODUCTS (OTHER THAN POULTRY AND DAIRY PRODUCTS)	8 230 207	5 979 443
FARM OPERATORS		
BY TENURE AND COLOR:		
FULL OWNERS	119	142
WHITE	119	(NA)
NONWHITE	-	(NA)
PART OWNERS	216	210
WHITE	216	(NA)
NONWHITE	-	(NA)
MANAGERS	5	7
TENANTS	129	158
WHITE	129	(NA)
NONWHITE	-	(NA)
PROPORTION OF TENANCY	27.5	30.6
BY AGE:		
AVERAGE AGE ..... YEARS	50.1	48.2
65 YEARS OLD AND OVER	70	55
BY RESIDENCE:		
RESIDING ON FARM OPERATED	382	415
NOT RESIDING ON FARM OPERATED	74	76
BY OFF-FARM WORK:		
WORKING OFF THEIR FARM	170	180
100 DAYS OR MORE	83	70

Table 2.--FARM OPERATORS BY VALUE OF FARM PRODUCTS SOLD AND YEARS OF SCHOOL COMPLETED; INCOME OF FARM-OPERATOR HOUSEHOLDS: 1964

(All data except those for farms by value of farm products sold and recreation income based on sample)

SUBJECT	1964
FARM OPERATORS	
BY VALUE OF FARM PRODUCTS SOLD:	
TOTAL	469
UNDER $250	13
$250 TO $499	6
$500 TO $999	14
$1,000 TO $1,499	10
$1,500 TO $1,999	13
$2,000 TO $2,499	11
$2,500 TO $4,999	41
$5,000 TO $7,499	67
$7,500 TO $9,999	56
$10,000 TO $14,999	71
$15,000 TO $19,999	39
$20,000 TO $29,999	46
$30,000 TO $39,999	32
$40,000 TO $59,999	22
$60,000 AND OVER	28
BY YEARS OF SCHOOL COMPLETED:	
ELEMENTARY: 0 TO 4 YEARS	9
5 TO 7 YEARS	30
8 YEARS	161
HIGH SCHOOL: 1 TO 3 YEARS	73
4 YEARS	139
COLLEGE: 1 TO 3 YEARS	36
4 YEARS OR MORE	21
INCOME	
INCOME OF ALL MEMBERS FROM SOURCES OTHER THAN FARM OPERATED:	
ALL SOURCES ..... HSHLDS.	340
DOLLARS.	1 416 404
WAGES AND SALARIES ..... HSHLDS.	206
DOLLARS.	533 112
NONFARM BUSINESS OR PROFESSIONAL PRACTICE ..... HSHLDS.	25
DOLLARS.	103 129
SOCIAL SECURITY, PENSIONS, VETERAN & WELFARE PAYMENTS. HSHLDS.	73
DOLLARS.	95 323
RENT FROM FARM & NONFARM PROPERTY, INTEREST, DIVIDENDS, ETC. ..... HSHLDS.	212
DOLLARS.	684 920
NUMBER OF HOUSEHOLDS REPORTING INCOME:	
UNDER $500	13
$500 TO $999	51
$1,000 TO $1,499	22
$1,500 TO $1,999	28
$2,000 TO $2,499	27
$2,500 TO $2,999	22
$3,000 TO $3,999	51
$4,000 TO $4,999	38
$5,000 AND OVER	88
RECREATION INCOME FROM HUNTING, FISHING, AND OTHER RECREATIONAL SERVICES ..... FARMS.	6
DOLLARS.	7 887

Table 3.--PERSONS IN FARM-OPERATOR HOUSEHOLDS: 1964

(Based on sample)

SUBJECT	1964
ALL PERSONS IN FARM-OPERATOR HOUSEHOLDS	
BY SEX AND AGE:	
TOTAL . . .	1 731
MALE . . .	894
FEMALE . . .	837
UNDER 5 YEARS . . .	119
5 TO 9 YEARS . . .	176
10 TO 14 YEARS . . .	264
15 TO 19 YEARS . . .	179
20 TO 24 YEARS . . .	44
25 TO 34 YEARS . . .	145
35 TO 44 YEARS . . .	219
45 TO 54 YEARS . . .	247
55 TO 64 YEARS . . .	203
65 YEARS AND OVER . . .	135
ALL PERSONS IN FARM-OPERATOR HOUSEHOLDS--CON.	
BY YEARS OF SCHOOL COMPLETED:	
TOTAL, 25 YEARS OLD AND OVER:	
ELEMENTARY: 0 TO 4 YEARS . . .	15
5 TO 7 YEARS . . .	49
8 YEARS . . .	255
HIGH SCHOOL: 1 TO 3 YEARS . . .	122
4 YEARS . . .	320
COLLEGE: 1 TO 3 YEARS . . .	136
4 YEARS OR MORE . . .	52
TOTAL, 25 TO 34 YEARS OLD:	
ELEMENTARY: 0 TO 4 YEARS . . .	3
5 TO 7 YEARS . . .	-
8 YEARS . . .	9
HIGH SCHOOL: 1 TO 3 YEARS . . .	24
4 YEARS . . .	71
COLLEGE: 1 TO 3 YEARS . . .	26
4 YEARS OR MORE . . .	12

Table 4.--LAND IN FARMS, LAND-USE PRACTICES, EQUIPMENT AND FACILITIES, EXPENDITURES, AND HIRED WORKERS: 1964 AND 1959

(All data except those for land in farms by use based on sample. NA denotes data not available; X denotes not applicable)

SUBJECT	1964	1959
LAND IN FARMS BY USE		
LAND IN FARMS . . . ACRES	633 504	630 995
CROPLAND HARVESTED . . . FARMS	439	490
ACRES	148 206	157 693
FARMS REPORTING: 1 TO 9 ACRES . . .	3	5
10 TO 19 ACRES . . .	8	6
20 TO 29 ACRES . . .	5	4
30 TO 49 ACRES . . .	11	14
50 TO 99 ACRES . . .	46	50
100 TO 199 ACRES . . .	100	124
200 TO 499 ACRES . . .	177	202
500 ACRES OR MORE . . .	89	85
CROPLAND USED ONLY FOR PASTURE . . FARMS	93	93
ACRES	5 290	19 502
CROPLAND NOT HARVESTED AND NOT PASTURED . . . FARMS	377	407
ACRES	105 632	93 713
CULTIVATED SUMMER FALLOW . . . FARMS	334	379
ACRES	90 450	81 402
SOIL-IMPROVEMENT GRASSES AND LEGUMES . . . FARMS	75	45
ACRES	4 287	3 211
CROP FAILURE . . . FARMS	89	(NA)
ACRES	5 496	(NA)
IDLE CROPLAND . . . FARMS	66	(NA)
ACRES	5 399	(NA)
WOODLAND PASTURED . . . FARMS	19	6
ACRES	1 642	749
WOODLAND NOT PASTURED . . . FARMS	17	12
ACRES	451	627
OTHER PASTURE (NOT CROPLAND AND NOT WOODLAND) . . . FARMS	371	381
ACRES	362 174	349 203
IMPROVED PASTURE . . . FARMS	36	31
ACRES	2 551	1 843
IRRIGATED LAND IN FARMS . . . FARMS	164	170
ACRES	28 192	25 928
IRRIGATED CROPLAND HARVESTED . . FARMS	161	166
ACRES	26 139	23 817
LAND-USE PRACTICES		
CROPLAND USED FOR GRAIN OR ROW CROPS FARMED ON THE CONTOUR . . . FARMS	39	17
ACRES	3 698	1 360
LAND IN STRIPCROPPING SYSTEMS FOR SOIL EROSION CONTROL . . . FARMS	43	38
ACRES	7 051	5 873
FARM PONDS, PITS, RESERVOIRS, AND EARTHEN TANKS . . . FARMS	67	(NA)
NUMBER	172	(NA)
ACRES COVERED	322	(NA)
LAND IN CROP DIVERSION PROGRAMS:		
WHEAT . . . FARMS	194	(NA)
FEED GRAINS . . . FARMS	242	(NA)
SPECIFIED EQUIPMENT AND FACILITIES		
AUTOMOBILES . . . FARMS	432	457
NUMBER	681	635
MOTORTRUCKS (INCLUDING PICKUPS) . FARMS	451	439
NUMBER	917	843
TRACTORS . . . FARMS	451	451
NUMBER	1 267	1 223
TRACTORS OTHER THAN GARDEN AND MOTOR TILLERS . . . FARMS	445	451
NUMBER	1 190	1 166
1 . . . FARMS	135	117
2 OR MORE . . . FARMS	310	334
WHEEL TRACTORS . . . FARMS	443	451
NUMBER	1 168	1 130
CRAWLER TRACTORS . . . FARMS	19	24
NUMBER	22	30
GARDEN TRACTORS & MOTOR TILLERS . FARMS	76	(NA)
NUMBER	77	(NA)
SPECIFIED EQUIPMENT AND FACILITIES--CON.		
GRAIN AND BEAN COMBINES . . . FARMS	178	287
NUMBER	222	347
PULL TYPE . . . FARMS	36	(NA)
NUMBER	51	(NA)
SELF-PROPELLED . . . FARMS	146	(NA)
NUMBER	171	(NA)
PICKUP BALERS . . . FARMS	128	113
NUMBER	136	115
HAY CONDITIONERS . . . FARMS	8	(NA)
NUMBER	8	(NA)
CROP DRIERS . . . FARMS	35	40
CORNPICKERS . . . FARMS	84	161
NUMBER	92	164
FIELD FORAGE HARVESTERS . . . FARMS	50	74
NUMBER	66	79
CYLINDER OR FLYWHEEL TYPE . . . FARMS	43	(NA)
NUMBER	49	(NA)
FLAIL TYPE . . . FARMS	17	(NA)
NUMBER	17	(NA)
TELEPHONE . . . FARMS	428	452
TELEVISION SET . . . FARMS	429	(NA)
HOME FREEZER . . . FARMS	383	359
MILKING MACHINE . . . FARMS	24	50
BULK MILK TANK . . . FARMS	18	(NA)
SPECIFIED FARM EXPENDITURES AND HIRED WORKERS		
ANY SPECIFIED FARM EXPENDITURES . FARMS	469	480
FEED FOR LIVESTOCK & POULTRY . . FARMS	330	355
DOLLARS	1 773 350	1 085 057
FEED GRAINS . . . FARMS	213	(NA)
DOLLARS	1 205 434	(NA)
COMMERCIALLY MIXED FEEDS, MILLFEEDS, & SUPPLEMENTS . . FARMS	275	(NA)
TONS	4 911	(NA)
DOLLARS	401 426	(NA)
HAY AND OTHER ROUGHAGE . . . FARMS	153	(NA)
DOLLARS	166 490	(NA)
PURCHASE OF LIVESTOCK AND POULTRY . . . FARMS	236	282
DOLLARS	3 195 657	2 151 080
CATTLE, CALVES, HOGS, PIGS, SHEEP, & OTHER LIVESTOCK . . FARMS	190	(NA)
DOLLARS	3 191 318	(NA)
POULTRY . . . FARMS	92	(NA)
DOLLARS	4 339	(NA)
SEEDS, BULBS, PLANTS, ETC. . . FARMS	333	279
DOLLARS	116 604	87 738
FERTILIZER AND FERTILIZING MATERIALS . . . FARMS	199	(NA)
DOLLARS	283 133	(NA)
GASOLINE & OTHER PETROLEUM FUEL & OIL FOR THE FARM BUSINESS . . FARMS	456	470
DOLLARS	612 172	555 595
GASOLINE . . . FARMS	450	(NA)
DOLLARS	365 743	(NA)
DIESEL OIL . . . FARMS	206	(NA)
DOLLARS	111 699	(NA)
LP GAS, BUTANE, & PROPANE . . FARMS	158	(NA)
DOLLARS	66 150	(NA)
OTHER PETROLEUM FUELS AND PRODUCTS . . . FARMS	456	(NA)
DOLLARS	68 590	(NA)
MACHINE HIRE, CUSTOM AND CONTRACT WORK . . . FARMS	328	264
DOLLARS	345 915	250 664
HIRED LABOR . . . FARMS	278	264
DOLLARS	602 229	493 761
REGULAR HIRED WORKERS (EMPLOYED 150 DAYS OR MORE) . . . FARMS	94	97
WORKERS	171	148

Table 5.--USE OF AGRICULTURAL CHEMICALS ON CROPS: 1964 AND 1959

(Based on sample. NA denotes data not available; X denotes not applicable)

SUBJECT	1964	1959
COMMERCIAL FERTILIZER AND FERTILIZING MATERIALS		
FARMS REPORTING USE DURING YEAR.	191	201
HAY AND CROPLAND PASTURE	33	41
OTHER PASTURE.	7	6
CORN	121	126
SORGHUMS	45	(NA)
WHEAT.	47	58
ALL OTHER CROPS.	49	(NA)
ACRES ON WHICH USED.	27 788	23 736
HAY AND CROPLAND PASTURE	2 728	1 688
OTHER PASTURE.	173	230
CORN	12 969	13 614
SORGHUMS	3 095	(NA)
WHEAT.	4 223	2 272
ALL OTHER CROPS.	4 600	5 932
AMOUNTS USED (TONS):		
DRY MATERIALS:		
HAY AND CROPLAND PASTURE	191	112
OTHER PASTURE.	12	16
CORN	804	423
SORGHUMS	76	(NA)
WHEAT.	141	78
ALL OTHER CROPS.	702	433
LIQUID MATERIALS:		
HAY AND CROPLAND PASTURE	-	7
OTHER PASTURE.	1	-
CORN	612	571
SORGHUMS	74	(NA)
WHEAT.	10	14
ALL OTHER CROPS.	76	68
LIME OR LIMING MATERIALS		
FARMS REPORTING.	-	-
ACRES LIMED.	-	-
TONS USED.	-	-
SPRAYS, DUSTS, ETC.		
CROPS TREATED DURING YEAR FOR CONTROL OF INSECTS AND DISEASE:		
FARMS REPORTING:		
GRAIN CROPS.	39	(NA)
ALFALFA, CLOVER, AND OTHER HAY CROPS	22	(NA)
COTTON	(X)	(X)
VEGETABLES GROWN FOR SALE.	-	(NA)
FRUITS AND NUTS.	-	(NA)
SEED CROPS AND OTHER CROPS	10	(NA)
ACRES TREATED:		
GRAIN CROPS.	5 116	(NA)
ALFALFA, CLOVER, AND OTHER HAY CROPS	625	(NA)
COTTON	(X)	(X)
VEGETABLES GROWN FOR SALE.	-	(NA)
FRUITS AND NUTS.	-	(NA)
SEED CROPS AND OTHER CROPS	745	(NA)
CROPS OR LAND TREATED DURING YEAR FOR CONTROL OF WEEDS, GRASS, OR BRUSH:		
FARMS REPORTING:		
CORN	42	(NA)
COTTON	(X)	(X)
SMALL GRAINS (WHEAT, OATS, RYE, BARLEY, FLAX, ETC.)	14	(NA)
OTHER CROPS.	59	(NA)
PASTURELAND AND RANGELAND.	5	(NA)
ACRES TREATED:		
CORN	5 359	(NA)
COTTON	(X)	(X)
SMALL GRAINS (WHEAT, OATS, RYE, BARLEY, FLAX, ETC.)	2 118	(NA)
OTHER CROPS.	4 513	(NA)
PASTURELAND AND RANGELAND.	186	(NA)
LIVESTOCK TREATED EXTERNALLY FOR CONTROLLING INSECTS:		
FARMS REPORTING:		
CATTLE AND CALVES.	162	(NA)
HOGS, SHEEP, AND GOATS	17	(NA)
NUMBER OF HEAD:		
CATTLE AND CALVES.	43 595	(NA)
HOGS, SHEEP, AND GOATS	2 209	(NA)

Table 6.--POULTRY AND LIVESTOCK AND THEIR PRODUCTS: 1964 AND 1959

(Data for 1959 on sales of cattle, hogs, sheep, and dairy products based on sample. NA denotes data not available)

SUBJECT	1964	1959
POULTRY AND LIVESTOCK ON FARMS		
FARMS REPORTING:		
CHICKENS 4 MONTHS OLD AND OVER	187	281
HENS AND PULLETS OF LAYING AGE	177	(NA)
TURKEY HENS KEPT FOR BREEDING.	1	2
CATTLE AND CALVES.	339	385
COWS, INCL. HEIFERS THAT HAVE CALVED	282	345
MILK COWS.	99	185
HEIFERS AND HEIFER CALVES.	293	320
STEERS AND BULLS, INCLUDING CALVES	307	336
HOGS AND PIGS.	68	141
USED OR TO BE USED FOR BREEDING.	30	(NA)
ALL OTHER.	66	(NA)
SHEEP AND LAMBS.	33	42
LAMBS UNDER 1 YEAR OLD	20	28
SHEEP 1 YEAR OLD AND OVER.	30	40
EWES	30	40
RAMS AND WETHERS	25	23
NUMBER:		
CHICKENS 4 MONTHS OLD AND OVER	12 435	28 263
HENS AND PULLETS OF LAYING AGE	11 041	(NA)
TURKEY HENS KEPT FOR BREEDING.	1	7
CATTLE AND CALVES.	58 466	52 306
COWS, INCL. HEIFERS THAT HAVE CALVED	20 636	19 103
MILK COWS.	731	1 168
HEIFERS AND HEIFER CALVES.	17 230	15 891
STEERS AND BULLS, INCLUDING CALVES	20 600	17 312
HOGS AND PIGS.	3 026	6 009
USED OR TO BE USED FOR BREEDING.	376	(NA)
ALL OTHER.	2 650	(NA)
SHEEP AND LAMBS.	2 628	3 831
LAMBS UNDER 1 YEAR OLD	1 028	1 986
SHEEP 1 YEAR OLD AND OVER.	1 600	1 845
EWES	1 547	1 803
RAMS AND WETHERS	53	42
POULTRY AND LIVESTOCK PRODUCTS		
FARMS REPORTING:		
POULTRY AND POULTRY PRODUCTS SOLD:		
CHICKENS, INCLUDING BROILERS	59	(NA)
BROILERS & OTHER MEAT-TYPE CHICKENS.	-	(NA)
HENS & ROOSTERS SOLD FOR SLAUGHTER	59	(NA)
CHICKEN EGGS	89	147
POULTRY AND LIVESTOCK PRODUCTS--CON.		
FARMS REPORTING--CON.		
POULTRY AND POULTRY PRODUCTS SOLD--CON.		
STARTED PULLETS, AND TURKEYS, DUCKS, GEESE, ETC., AND THEIR EGGS	6	(NA)
VALUE OF SALES	$490	(NA)
TURKEYS RAISED	5	9
LIVESTOCK SOLD ALIVE & THEIR PRODUCTS:		
CATTLE AND/OR CALVES	345	358
CATTLE, NOT COUNTING CALVES.	266	250
FATTENED ON GRAIN AND CONCENTRATES	58	(NA)
CALVES	267	247
FATTENED ON GRAIN AND CONCENTRATES	21	(NA)
HOGS AND PIGS.	76	160
SHEEP AND LAMBS.	33	57
WOOL SHORN	31	42
FUR-BEARING ANIMALS, HORSES, MULES, GOATS, GOAT MILK, BEES, HONEY, AND OTHER LIVESTOCK PRODUCTS SOLD	20	(NA)
VALUE OF SALES	$28 270	(NA)
DAIRY PRODUCTS SOLD:		
MILK SOLD AS WHOLE MILK.	8	10
TO CONSUMERS AND STORES.	-	(NA)
CREAM.	41	86
NUMBER:		
POULTRY AND POULTRY PRODUCTS SOLD:		
CHICKENS, INCLUDING BROILERS	6 805	(NA)
BROILERS & OTHER MEAT-TYPE CHICKENS.	-	(NA)
HENS & ROOSTERS SOLD FOR SLAUGHTER	6 805	(NA)
CHICKEN EGGS . . . . DOZENS.	60 505	170 755
TURKEYS RAISED	42	122
LIVESTOCK SOLD ALIVE & THEIR PRODUCTS:		
CATTLE, NOT COUNTING CALVES.	34 891	23 340
FATTENED ON GRAIN AND CONCENTRATES	25 763	(NA)
CALVES	15 268	8 501
FATTENED ON GRAIN AND CONCENTRATES	1 499	(NA)
HOGS AND PIGS.	4 481	6 014
SHEEP AND LAMBS.	2 964	6 652
WOOL SHORN . . . . POUNDS.	20 452	31 736
DAIRY PRODUCTS SOLD:		
MILK SOLD AS WHOLE MILK. . . POUNDS.	3 352 455	1 598 540
TO CONSUMERS AND STORES. . QUARTS.	-	(NA)
CREAM. . . . . POUNDS OF BUTTERFAT.	26 096	99 848

Table 7.--CROPS HARVESTED: 1964 AND 1959

(NA denotes data not available)

SUBJECT	1964	1959
CORN FOR--		
ALL PURPOSES:		
FARMS REPORTING	135	210
ACRES	13 595	20 264
HARVESTED FOR GRAIN:		
FARMS REPORTING	119	201
ACRES	10 540	17 872
BUSHELS	757 361	957 342
SALES:		
FARMS REPORTING	93	140
BUSHELS	505 497	616 492
CUT FOR SILAGE:		
FARMS REPORTING	51	42
ACRES	2 901	2 262
TONS, GREEN WEIGHT	45 787	26 227
CUT FOR GREEN OR DRY FODDER:		
FARMS REPORTING	2	(NA)
ACRES	9	(NA)
HOGGED OR GRAZED:		
FARMS REPORTING	6	(NA)
ACRES	145	(NA)
SORGHUMS FOR--		
ALL PURPOSES, EXCEPT SIRUP:		
FARMS REPORTING	219	244
ACRES	16 600	18 824
HARVESTED FOR GRAIN OR SEED:		
FARMS REPORTING	160	218
ACRES	12 222	16 442
BUSHELS	295 815	479 567
SALES:		
FARMS REPORTING	133	148
BUSHELS	234 132	302 562
CUT FOR SILAGE:		
FARMS REPORTING	30	16
ACRES	1 615	971
TONS, GREEN WEIGHT	13 648	5 970
CUT FOR DRY FORAGE OR HAY:		
FARMS REPORTING	84	(NA)
ACRES	2 256	(NA)
TONS	3 546	2 911
HOGGED OR GRAZED:		
FARMS REPORTING	17	(NA)
ACRES	507	(NA)
SOYBEANS:		
HARVESTED FOR BEANS:		
FARMS REPORTING	1	1
ACRES	40	6
BUSHELS	1 000	100
CUT FOR HAY:		
FARMS REPORTING	-	-
ACRES	-	-
TONS	-	-
HOGGED OR GRAZED OR CUT FOR SILAGE:		
FARMS REPORTING	-	-
ACRES	-	-
SMALL GRAINS HARVESTED:		
WHEAT:		
FARMS REPORTING	331	397
ACRES	66 663	66 531
BUSHELS	1 464 097	1 593 094
SALES:		
FARMS REPORTING	329	395
BUSHELS	1 399 103	1 535 550
OATS FOR GRAIN:		
FARMS REPORTING	77	23
ACRES	2 756	732
BUSHELS	85 531	10 300
SALES:		
FARMS REPORTING	47	7
BUSHELS	58 736	5 570
BARLEY FOR GRAIN:		
FARMS REPORTING	22	154
ACRES	1 081	8 002
BUSHELS	26 461	139 397
SALES:		
FARMS REPORTING	19	101
BUSHELS	23 586	100 909
RYE FOR GRAIN:		
FARMS REPORTING	62	47
ACRES	3 560	1 475
BUSHELS	50 898	23 079
SALES:		
FARMS REPORTING	59	42
BUSHELS	43 761	20 018
PROSO MILLET FOR GRAIN:		
FARMS REPORTING	13	2
ACRES	392	324
BUSHELS	5 206	5 500
SALES:		
FARMS REPORTING	13	1
BUSHELS	4 787	3 800
SAFFLOWER:		
FARMS REPORTING	3	12
ACRES	60	647
POUNDS	32 960	567 882
SALES:		
FARMS REPORTING	3	12
POUNDS	32 960	567 882
OTHER GRAINS:		
FARMS REPORTING	2	(NA)
ACRES	70	(NA)
BUSHELS	1 000	(NA)
SALES:		
FARMS REPORTING	1	(NA)
BUSHELS	800	(NA)
HAY CROPS:		
ALFALFA AND ALFALFA MIXTURES CUT FOR HAY AND FOR DEHYDRATING:		
FARMS REPORTING	175	187
ACRES	8 984	8 526
TONS	25 100	24 704
SALES:		
FARMS REPORTING	59	61
TONS	5 470	6 779
CLOVER, TIMOTHY, AND MIXTURES OF CLOVER AND GRASSES CUT FOR HAY:		
FARMS REPORTING	1	2
ACRES	235	25
TONS	118	70
SALES:		
FARMS REPORTING	-	1
TONS	-	40
OATS, WHEAT, BARLEY, RYE, OR OTHER SMALL GRAINS CUT FOR HAY:		
FARMS REPORTING	53	30
ACRES	1 177	574
TONS	948	519
SALES:		
FARMS REPORTING	4	1
TONS	74	6
WILD HAY CUT:		
FARMS REPORTING	107	123
ACRES	26 585	28 563
TONS	20 590	21 451
SALES:		
FARMS REPORTING	21	19
TONS	750	1 148
OTHER HAY CUT:		
FARMS REPORTING	60	45
ACRES	1 745	1 052
TONS	2 495	1 635
SALES:		
FARMS REPORTING	5	3
TONS	201	347
GRASS SILAGE MADE FROM GRASSES, ALFALFA, CLOVER, OR SMALL GRAINS:		
FARMS REPORTING	7	3
ACRES	327	131
TONS, GREEN WEIGHT	3 161	350
SALES:		
FARMS REPORTING	-	(NA)
TONS, GREEN WEIGHT	-	(NA)
FIELD SEED CROPS HARVESTED:		
ALFALFA SEED:		
FARMS REPORTING	13	11
ACRES	508	449
POUNDS	37 008	31 850
RED CLOVER SEED:		
FARMS REPORTING	-	-
ACRES	-	-
POUNDS	-	-
SWEETCLOVER SEED:		
FARMS REPORTING	-	-
ACRES	-	-
POUNDS	-	-
BROMEGRASS SEED:		
FARMS REPORTING	1	-
ACRES	70	-
POUNDS	10 000	-
OTHER FIELD CROPS HARVESTED:		
IRISH POTATOES FOR HOME USE OR SALE:		
FARMS REPORTING	3	7
ACRES	6	110
HUNDREDWEIGHT	507	10 273
DRY FIELD AND SEED BEANS HARVESTED FOR BEANS:		
FARMS REPORTING	12	2
ACRES	360	115
100-POUND BAGS	4 340	950
SUGAR BEETS FOR SUGAR:		
FARMS REPORTING	42	30
ACRES	3 621	1 138
TONS	52 967	17 817
POPCORN:		
FARMS REPORTING	-	-
ACRES	-	-
POUNDS, EAR CORN	-	-
VEGETABLES FOR SALE (OTHER THAN IRISH AND SWEET POTATOES):		
VEGETABLES HARVESTED FOR SALE:		
FARMS REPORTING	3	4
ACRES	4	13
SALES	$825	$2 250
TOMATOES:		
FARMS REPORTING	1	3
ACRES	(Z)	3
SWEET CORN:		
FARMS REPORTING	2	3
ACRES	4	6
WATERMELONS:		
FARMS REPORTING	-	2
ACRES	-	1
CANTALOUPS AND MUSKMELONS:		
FARMS REPORTING	1	
ACRES	(Z)	
BERRIES HARVESTED FOR SALE:		
STRAWBERRIES:		
FARMS REPORTING	-	1
ACRES	-	(Z)
QUARTS	-	40

Z REPORTED IN SMALL FRACTIONS.

Table 8.--TREE FRUITS, NUTS, AND GRAPES; NURSERY AND GREENHOUSE PRODUCTS; AND FOREST PRODUCTS: 1964 AND 1959

(NA denotes data not available)

SUBJECT	1964	1959
TREE FRUITS, NUTS, AND GRAPES:		
LAND IN BEARING AND NONBEARING FRUIT ORCHARDS, GROVES, VINEYARDS, AND PLANTED NUT TREES:		
FARMS REPORTING	8	7
ACRES	10	7
APPLES:		
FARMS REPORTING	6	7
NUMBER:		
TREES OF ALL AGES	72	184
TREES NOT OF BEARING AGE	32	50
TREES OF BEARING AGE	40	134
QUANTITY HARVESTED . . . . BUSHELS	60	101
PEACHES:		
FARMS REPORTING	4	6
NUMBER:		
TREES OF ALL AGES	15	21
TREES NOT OF BEARING AGE	5	17
TREES OF BEARING AGE	10	4
QUANTITY HARVESTED . . . . BUSHELS	5	-
PEARS:		
FARMS REPORTING	5	3
NUMBER:		
TREES OF ALL AGES	15	4
TREES NOT OF BEARING AGE	8	1
TREES OF BEARING AGE	7	3
QUANTITY HARVESTED . . . . BUSHELS	16	4
GRAPES:		
FARMS REPORTING	4	3
NUMBER:		
VINES OF ALL AGES	229	16
VINES NOT OF BEARING AGE	9	5
VINES OF BEARING AGE	220	11
QUANTITY HARVESTED . . . . POUNDS	219	130
PLUMS AND PRUNES:		
FARMS REPORTING	5	3
NUMBER:		
TREES OF ALL AGES	89	13
TREES NOT OF BEARING AGE	8	-
TREES OF BEARING AGE	81	13
QUANTITY HARVESTED . . . . BUSHELS	45	4
CHERRIES:		
FARMS REPORTING	5	6
NUMBER:		
TREES OF ALL AGES	57	27
TREES NOT OF BEARING AGE	27	4
TREES OF BEARING AGE	30	23
QUANTITY HARVESTED . . . . POUNDS	710	156
APRICOTS:		
FARMS REPORTING	5	2
NUMBER:		
TREES OF ALL AGES	32	5
TREES NOT OF BEARING AGE	18	1
TREES OF BEARING AGE	14	4
QUANTITY HARVESTED . . . . BUSHELS	10	-

SUBJECT	1964	1959
NURSERY AND GREENHOUSE PRODUCTS,		
FLOWERS, VEGETABLE SEEDS AND PLANTS, AND BULBS, GROWN FOR SALE:		
FARMS REPORTING	1	2
SALES	(D)	$650
NURSERY PRODUCTS (TREES, SHRUBS, VINES, ORNAMENTALS, ETC.):		
FARMS REPORTING	1	-
ACRES	2	-
SALES	(D)	-
CUT FLOWERS, POTTED PLANTS, FLORIST GREENS, AND BEDDING PLANTS:		
FARMS REPORTING	-	2
SALES	-	$650
GROWN UNDER GLASS OR OTHER PROTECTION:		
FARMS REPORTING	-	1
SQUARE FEET	-	1 500
GROWN IN THE OPEN:		
FARMS REPORTING	-	1
ACRES	-	1
VEGETABLES GROWN UNDER GLASS, FLOWER SEEDS, VEGETABLE SEEDS AND PLANTS, BULBS, AND MUSHROOMS:		
FARMS REPORTING	-	-
SALES	-	-
GROWN UNDER GLASS OR OTHER PROTECTION:		
FARMS REPORTING	-	-
SQUARE FEET	-	-
GROWN IN THE OPEN:		
FARMS REPORTING	-	-
ACRES	-	-
FOREST PRODUCTS:		
FARMS REPORTING ANY PRODUCTS CUT AND/OR SOLD	1	-
SALES OF FOREST PRODUCTS:		
FARMS REPORTING	-	-
AMOUNT	-	-
STANDING TIMBER:		
FARMS REPORTING	-	-
AMOUNT	-	-
FIREWOOD, FENCE POSTS, SAWLOGS, AND VENEER LOGS:		
FARMS REPORTING	-	-
AMOUNT	-	-
OTHER MISCELLANEOUS PRODUCTS:		
FARMS REPORTING	-	-
AMOUNT	-	-
FIREWOOD AND FUELWOOD CUT:		
FARMS REPORTING	-	-
CORDS (4'X4'X8')	-	-
SALES:		
FARMS REPORTING	-	-
CORDS (4'X4'X8')	-	-
FENCE POSTS CUT:		
FARMS REPORTING	1	-
NUMBER	300	-
SALES:		
FARMS REPORTING	-	-
NUMBER	-	-
SAWLOGS AND VENEER LOGS CUT:		
FARMS REPORTING	-	-
THOUSANDS OF BOARD FEET	-	-
SALES:		
FARMS REPORTING	-	-
THOUSANDS OF BOARD FEET	-	-

D DATA WITHHELD TO AVOID DISCLOSURE OF INFORMATION FOR INDIVIDUAL FARMS.

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